



Letter of Submittal and Attachments for: BOUNDARY CHANNEL DRIVE AT I-395 INTERCHANGE DESIGN-BUILD PROJECT

VDOT I-95 / Temple Avenue Interchange Design-Build

VDOT Odd Fellows Road Interchange Design-Build

> VDOT Route 7 Widening over Dulles Toll Road Design-Build

MAY 12, 2021

FROM: 0.06 MILES WEST OF CONNECTOR ROAD TO: LONG BRIDGE DRIVE STATE PROJECT NO.: 6587-000-R89, P101, R201, C501 FEDERAL PROJECT NO.: NHPP-5B01(120)





LETTER OF SUBMITTAL





Wagman Heavy Civil, Inc. 3290 N. Susquehanna Trail York, PA 17406-9754

May 12, 2021

Sudha Mudgade, P.E., PMP, DBIA Virginia Department of Transportation 1401 East Broad Street Annex Building, 5th Floor Richmond, VA 23219

RE: A Design-Build Project, Boundary Channel Drive at I-395 Interchange Arlington County, Virginia State Project No.: 6587-000-R89, P101, R201, C501 Federal Project No.: NHPP-5B01(120) Contract ID Number: C00116394DB109

Dear Ms. Mudgade:

Wagman Heavy Civil, Inc. (Wagman) is pleased to submit our Letter of Submittal, with full supporting documentation, electronically via Bid Express to the Virginia Department of Transportation (VDOT) to provide Design-Build (D-B) services for the Boundary Channel Drive at I-395 Interchange Project in Arlington County, VA. We have carefully reviewed the Request for Proposals (RFP), RFP Addendum Numbers 1, 2 and 3, and RFP Questions and Answers; attended the pre-proposal meetings and a Proprietary Meeting; and visited the site.

Wagman has assembled a strong and efficient team of highly qualified professionals with the necessary expertise to successfully meet the goals and objectives of this project. Wagman has selected Rinker Design Associates, P.C. (RDA) as our lead design firm to provide all engineering services for this project. Wagman and RDA have excellent reputations in the design and construction of similar projects, with proven experience in delivering quality D-B projects. Other members of our team include CES Consulting, LLC; DMY Engineering Consultants, Inc.; ATCS, PLC; Floura Teeter Landscape Architects, Inc.; and Dulles Geotechnical & Materials Testing Services.

4.1.1 Offeror's Full Legal Name and Address. The full legal name and address of Wagman is as follows:

Wagman Heavy Civil, Inc.		717.767.8277
3290 N. Susquehanna Trail, York, PA 17406-9754	Fax:	717.767.5546

4.1.2 Declaration of Intent. As the Offeror, it is Wagman's intent, if selected, to enter into a contract with VDOT for the Project in accordance with the terms of this respective RFP.

4.1.3 120-Day Declaration. Pursuant to RFP Part 1, Section 8.2, we declare that the offer represented by this Letter of Submittal and Attachments will remain in full force and effect for one hundred twenty (120) days after the date the Price Proposal is submitted to VDOT (May 19, 2021).

4.1.4 Point of Contact Information. Mr. David L. Leber, DBIA, PMP, Senior Project Manager, is the official point of contact for the Wagman Team for all matters associated with this Letter of Submittal and Attachments. His contact information is as follows:

David L. Leber, Senior Project Manager 3290 N. Susquehanna Trail | York, PA 17406-9754 Phone: 717.600.6564, Fax: 717.767.5457 Email: dlleber@wagman.com

4.1.5 *Principal Officer Information.* **Mr. Anthony W. Bednarik, DBIA**, Vice President Major Pursuits/Design-Build, will serve as the principal officer for Wagman Heavy Civil, Inc. His contact information is as follows:

Anthony W. Bednarik, Vice President Major Pursuits/Design-BuildPhone: 717.324.39793290 N. Susquehanna Trail | York, PA 17406-9754Email: awbednarik@wagman.com

4.1.6 Interim Milestone and Final Completion Dates. In accordance with RFP Part I, Section 2.3.1, Wagman proposes an Interim Milestone of September 22, 2023 and a Final Completion Date of November 21, 2023.

4.1.7 *Proposal Payment Agreement.* An executed Proposal Payment Agreement (Attachment 9.3.1) can be found in the Appendix.

4.1.8 Certification Regarding Debarment Forms. Certification Regarding Debarment Forms for both Primary and Lower Tier Covered Transactions have been executed and included for the Offeror and all subconsultants, subcontractors, and other entities identified on the Offeror's organizational chart. These forms can be found in the Appendix.

4.1.9 DBE Commitment (12%). Wagman supports the Disadvantaged Business Enterprise (DBE) program and is committed to achieving the twelve percent (12%) DBE participation goal for the entire value of the contract.

Wagman and RDA each have long and successful histories of serving VDOT on numerous projects. As a single, integrated D-B Team, we will design and construct the Boundary Channel Drive at I-395 Interchange D-B Project in a manner to ensure the greatest opportunity for success. We will create a transparent working relationship with VDOT and third-party stakeholders to promote trust, confidence, and collaboration.

Respectfully, WAGMAN HEAVY CIVIL, INC.

Anthony W. Bednarik, DBIA Vice President Major Pursuits/Design-Build





4.2.1 Organizational Chart and Key Personnel Confirmation

The Wagman Team confirms that our organizational chart (included on the following page) and key personnel contained in our SOQ submission remain true and accurate. Furthermore, all team members and non-key personnel remain unchanged from the SOQ.

TEAM MEMBERS

The following firms will support Wagman and RDA on this Project:

- **CES Consulting, LLC (CES)** will provide the Quality Assurance Manager, QA inspection services, and oversight of the QA laboratory (Dulles Geotechnical and Materials Testing Services, Inc.).
- Dulles Geotechnical and Materials Testing Services, Inc. (DG-MTS) will provide laboratory services for Construction QA services.
- **DMY Engineering Consultants, Inc.** (**DMY**) will provide geotechnical analysis, drilling, and laboratory services for design and Construction QC services.
- ATCS, PLC will provide environmental and traffic analysis.
- Floura Teeter Landscape Architects, Inc. will provide landscape design for the project.

Our Team's organizational chart has not changed, nor have the functional relationships and communication amongst our team members, VDOT, or stakeholders. For VDOT's convenience, we have reiterated our functional relationships and communication approach from our SOQ on page 5.





ORGANIZATIONAL CHART



FUNCTIONAL RELATIONSHIPS AND COM-MUNICATION: The integration of our design and construction staff with VDOT and the project stakeholders throughout the duration of the Project will promote routine and open communication. VDOT's participation in formal partnering will be requested to foster an atmosphere of trust and transparency between VDOT, the D-B team, and project stakeholders. This will encourage open dialogue when issues arise that may jeopardize the success of the Project.

The Department will coordinate directly with our DBPM as the primary contact for all aspects of design and construction oversight of the Project. Bi-weekly design and weekly construction progress meetings will include discussions on contract administration; safety; schedule updates; conflict resolution; stakeholder concerns; and progress updates for design and construction activities.

Reporting to the DBPM are five primary positions-the QAM, DM, CM, Public Relations Manager, and Design/Construction Integrator. This structure, combined with our DBPM's maintenance of an action item log for potential issues and three-month look-ahead schedule will ensure the Project remains on-schedule and in conformance with VDOT commitments.

The QAM will report to our DBPM, with independent oversight by VDOT. Open lines of communication between the QAM and VDOT will assist with monitoring quality assurance. QA Inspectors and Labs will report through the QAM. Our QAM will also monitor the construction QC program to ensure all work and materials, testing, and sampling is performed in accordance with the contract requirements and the "approved for construction" plans and specifications.

The Public Relations Manager (PRM) will report to the DBPM and will act as a liaison between the Wagman/RDA Team, third party stakeholders, and the general public to facilitate communication and outreach efforts throughout the design and construction process, minimizing VDOT's direct efforts associated with public outreach.

The Design/Construction Integrator will report to the DBPM and will work closely with the DM and CM to seamlessly tie together the design development and construction.

Design: Our DM will report to the DBPM and coordinate with the CM to develop an efficient and construct-

ible design. He will work with the CM during construction to confirm field conditions meet design assumptions and reevaluate these assumptions if necessary. The Design QA/QC Manager will report to the DM and independently monitor the design QA/QC process. ATCS, DMY, and Floura Teeter will all be subcontracted with RDA for their respective services and their individual discipline leads will report to the DM. This structure will ensure effective and efficient design management. Coordination between the design and construction staff will start during preparation of the technical proposal and continue throughout the Project to incorporate means and methods into the design. Meetings will also include design disciplinary reviews, over the shoulder reviews, and comment resolution meetings with stakeholders.

Construction: The CM will report to the DBPM and communicate directly with the QAM/DM/PRM and VDOT's field personnel to provide construction progress updates and verify conformance with the contract documents. He will also communicate with the DM during both to ensure construction is consistent with the project design. Our CM will be on-site for the duration of construction operations and will personally oversee the entire construction team. Daily coordination meetings between the CM, senior inspectors, and VDOT's representative will facilitate communication regarding construction progress. Weekly planning and schedule meetings will include the QA and QC team, VDOT representatives, and design team members as necessary. Before each shift, field supervisors will review safety and performance with their crews to establish protocols in upcoming work.

Executive Task Force Review Committee: The Executive Task Force Review Committee will coordinate with the DM and the CM to provide a unified and global evaluation of project challenges to ensure that the project's goals are maintained. They will establish a resolution hierarchy to ensure that solutions are developed and coordinated at the lowest level feasible. Issues will be tracked through the use of a resolution matrix and will be reported to the DBPM for his acceptance and implementation. Our Executive Task Force Review Committee is composed of Wagman's Vice President and RDA's President/CEO in order to facilitate quick responses and resolutions. Additionally, they bring extensive experience on D-B and complex projects within their areas of expertise.



4.2.4 Proposal Schedule and Narrative

The Wagman Team has provided a Proposal Schedule and Proposal Schedule Narrative demonstrating our understanding of the complexities and interrelationships of the technical elements of the Project. PDF copies of the Proposal Schedule and narrative, as well as a back-up copy of the Proposal Schedule's source document, have been submitted electronically via Bid Express.

4.2.4.1 Proposal Schedule: The Wagman Team has developed a Proposal Schedule which incorporates the internal plan reviews, VDOT plan reviews and approvals, environmental permitting and constraints, right of way acquisition, utility relocation, construction activities and QA/QC inspection and testing. Our proposal schedule meets the RFP requirements including the Interim Milestone and Final Completion Dates. The Wagman Team will aggressively manage the project schedule and will deliver Final Completion by November 21, 2023.

The Proposal Schedule depicts the Wagman Team's proposed overall sequence of work and duration for each work task and deliverable required to complete the Project. The schedule is organized using a hierarchical Work Breakdown Structure (WBS) for major sections, one for design and another for construction. These both are broken down into smaller disciplines for design phases and areas for construction.

4.2.4.2 Proposal Schedule Narrative: In addition to the technical elements, the narrative also describes the Wagman Team's plan to accomplish the Work including, but not limited to, the overall sequencing, a description and explanation of the Critical Path, proposed means and methods, and other key elements upon which the Proposal Schedule is based.

SCHEDULE DEVELOPMENT

The Wagman Team has reviewed in detail the scope and schedule requirements outlined in the RFP and has developed a Proposal Schedule outlining our plan to successfully manage all phases of the Boundary Channel Drive at I-395 Interchange project to safely deliver it in an expedited manner.

Project Milestones

Figure 4.2.4.2.1: Project Milestones				
Notice to Proceed	7/16/2021			
CTB Approval of LACC	1/5/2022			
Approval of Advanced Work Package	2/20/2022			
Start of Construction	3/03/2022			
Approval of Final Design Package	7/25/2022			
Interim Milestone	9/22/2023			
Final Completion	11/21/2023			

WORK BREAKDOWN STRUCTURE

The Team has organized the schedule into a hierarchical Work Breakdown Structure (WBS) to demonstrate the relationship and activity durations amongst the design, environmental permitting, Right of Way acquisition, utility relocation, and construction for the Boundary Channel Drive project. The following is a summary of our schedule organization followed by the complete WBS listing in Figure 4.2.4.2.2.



General: This section includes major milestones on the project.

Design: Includes preliminary engineering services, plan development, QA/QC reviews, submittal milestones, internal reviews, VDOT plan reviews and approvals, other regulatory agency reviews, and Approval for Construction Milestones.

Construction: Includes all components of roadway construction as well as Utility Relocations, MOT, lighting, and landscaping. This section is further broken down to show the Wagman Team's 3 Phase logical progress of work and work areas.

Figure 4.2.4.2.2: Work Breakdow	n Structure	
VBS Code WBS Name		Total \ctivities
BOUNDARY	Boundary Channel LOS Sched	Jule 186
BOUNDARY.1	General	5
BOUNDARY.2	Design	71
BOUNDARY.2.1	Quality	4
BOUNDARY.2.2	Scope Validation	3
BOUNDARY.2.3	Survey	5
BOUNDARY.2.4	Geotechnical	11
BOUNDARY.2.4.5	Roadway GDR	6
BOUNDARY.2.5	Enviromental	5
BOUNDARY.2.6	Utilities	12
BOUNDARY.2.6.1	Utility Coordination	6
BOUNDARY.2.6.2	Utility Design	6
BOUNDARY.2.7	Advanced Work Package	11
BOUNDARY.2.8	Limited Access Change	5
BOUNDARY.2.9	ROW Acquistion	1
BOUNDARY.2.10	ITS/Lighting/Signing/Striping	7
BOUNDARY.2.11	Final Roadway	7
BOUNDARY.3	Construction	110
BOUNDARY.3.1	Utility Relocations	5
BOUNDARY.3.2	Phase 1	62
BOUNDARY.3.2.1	Phase 1A	8
BOUNDARY.3.2.1.1	NW Quad	4
BOUNDARY.3.2.1.3	Boundary Channel	4
BOUNDARY.3.2.2	Phase 1B	51
BOUNDARY.3.2.2.1	Eastbound Boundary Channel	11
BOUNDARY.3.2.2.2	NW Quad	11
BOUNDARY.3.2.2.3	NE Quad	11
BOUNDARY.3.2.2.4	SW Quad	7
BOUNDARY.3.2.2.5	SE Quad	11
BOUNDARY.3.3	Phase 2	26
BOUNDARY.3.3.1	Phase 2A	4
BOUNDARY.3.3.1.23	Boundary Channel	4
BOUNDARY.3.3.2	Phase 2B	
BOUNDARY.3.3.2.1	Westbound Boundary Channel	
BOUNDARY.3.3.2.2	NW Quad	
BOUNDARY.3.4	Phase 3	17
V All Projects	Page 1 of 3	© Oracle Corporation
WBS Elements below Project		



CALENDARS

The Wagman Team has incorporated four (4) calendars into the Project Schedule:

- Calendar 1 "7 Day Calendar" This calendar holds every day as a work day. This calendar has been assigned to all administrative, design, and review activities. For example, this calendar has been assigned to VDOT's 21 calendar day review activities.
- Calendar 2 "5 Day Calendar" This calendar is based on five (5) working days per week. In addition to weekends, this calendar designates all major holidays as non-working days. This calendar includes a few arbitrary days throughout the year as weather days.
- Calendar 3 "5 Day Asphalt Calendar" This calendar is based on five (5) working days per week. In addition to weekends, this calendar designates all major holidays as non-working days and includes a few arbitrary days throughout the year as weather days. The annual period from December 15th to February 28th is designated as non-working days due to anticipated winter weather. This calendar has been assigned to all roadway paving activities.
- Calendar 4 "5 Day Grading Calendar" This calendar is based on five (5) working days per week. In addition to weekends, this calendar designates all major holidays as non-working days and includes a few arbitrary days throughout the year as weather days. The annual period from December 1st to February 28th is designated as non-working days due to anticipated winter weather. This calendar has been assigned to all roadway grading-related construction activities such as rough grading and installation of stone base material.

PLAN TO ACCOMPLISH THE WORK

The narrative below describes the Wagman Team's project delivery plan grouped by major Work Breakdown Structure (WBS) divisions.

Design Phase: The Wagman Team will finalize the design from the current Request for Proposal documents to obtain approval on the Approved for Construction (AFC) plan set. Design activities will include surveying, geotechnical (including borings and analysis), environmental, utilities, advanced work package, ROW / limited access change, ITS/lighting/signing/striping, and final roadway design. The project will be delivered by completing roadway design in two phases: Advanced Work Package (AWP) / ROW Design, and Final Design/AFC.

 AWP / ROW Design- AWP / ROW Design submittal activities will focus on developing roadway plans including performing geometric design; preparing cross sections and defining limits of construction; completing SWM and E&S control design; preparing plans for the TMP including Ramp Detours. Required ROW limits will be evaluated and depicted on the plans, and preliminary utility relocation plans will be prepared. The goal of this submittal is to gain ROW Authorization to proceed with ROW acquisition services on the project.

The ROW, environmental coordination and approval, and utility relocation plan activities will be developed for individual submissions to VDOT and other regulatory agencies for review and approval.

- **Final Design**–Final Design Plan submittal will occur after receiving ROW design approval with the ROW authorization from VDOT. The Wagman Team will submit the final design plans and reports to VDOT for review and approval. The Wagman Team intends to develop two submittal packages for the Final Design Plans as follows:
 - ITS/Lighting/Signing/Striping
 - Final Roadway



• Environmental–Environmental Permitting activities will begin shortly after receiving NTP and will include a thorough environmental evaluation and confirmation of the information provided in the RFP documents. The Wagman Team will prepare a comprehensive environmental management plan that includes a matrix of environmental commitments and compliance requirements that; identifies milestone dates and integrates those into the project schedule; identifies the responsible party; and summarizes requirements.

Final environmental activities will begin immediately after receiving preliminary plan approval from VDOT. At this point in the design, the Wagman Team will identify the final environmental impacts required to construct the project in its entirety. The Wagman Team will strive to avoid and minimize environmental impacts during design development and construction. A Stormwater Pollution Prevention Plan (SWPPP) will be developed and the registration statement for the Virginia Stormwater Management Permit will be submitted immediately following the SWPPP development.

- **Right-of-Way Acquisition**–Preliminary ROW activities will begin after receiving NTP. The Wagman Team will begin performing the legal research for the identified parcels on the preliminary plans at the same time that our survey crew is validating the survey information provided in the RFP package.
- Utility Relocations-The Wagman Team's project schedule includes activities for holding the Utility Field Investigation (UFI) meeting, followed by preparation of the Plan & Estimate (P&E) estimates by the utility owner, approval of the P&E, and construction of the relocation. Although we have already met with each individual utility company to discuss the proposed relocations and prior rights, the utility relocation schedule starts with formal UFI meetings following completion of all utility test pits. This will enable our Team to confirm and adjust our list of utility conflicts based on the field test pit data prior to holding the formal UFI meeting. We will continue this early coordination of utilities throughout the Design Phase of the Project to ensure that our Design Plans are coordinated with the utility relocation plans. The utility relocations are anticipated to be completed prior to impacting construction operations, thus avoiding potential construction delays.

PROPOSAL SCHEDULE NARRATIVE

The Wagman Team plans to construct and manage the project in three (3) phases of construction with subphases for permanent / temporary work with a WBS for locations within the project. We will prepare an Advanced Work Package (AWP) to complete the MOT, E&S activities, temporary roadways, and waterline relocations. It is anticipated that the AWP will be approved in March 2022 with mobilization and start of construction to follow soon after. These activities are depicted in Phase 1A.

Once Phase 1A is complete and approval of Final Roadway plans, Phase 1B will begin which will be the start of permanent roadway construction on Boundary Channel Drive and ramps. It is anticipated that the ramps will be performed under temporary ramp closures with detours being implemented. Boundary Channel Drive will be constructed in halves with Eastbound being removed and reconstructed in Phase 1B.

After completion of Phase 1B, Phase 2 work will begin and Boundary Channel Drive will be temporarily widened to allow for the MOT to be implemented. Traffic will then be switched onto the newly constructed roadway and westbound Boundary Channel Drive will be removed and reconstructed.

Phase 3 work will primarily consist of constructing the roundabouts, installing curb, sidewalks, and shared use paths that were not completed in previous phases. Pavement milling, final asphalt paving, lighting, signage, and landscaping will also be completed in Phase 3.



PROJECT CRITICAL PATH

The critical path will be continually analyzed throughout the project to ensure the entire team is concentrating on activities required to achieve key project milestones. The overall critical path, based on the longest path, runs through the approval of the final roadway plans which allows for the permanent roadway work on Boundary Channel and the ramps to be performed in Phase 1 and 2. Phase 3 will follow with all the project finishes and lead to interim and final completion.

Fig	ure 4.2.4.2	2.3: Critical	Path							
Crit BO	tical Path UNDARY			Boundary Channel LOS Schedule				0	5-10-21 ⁻	13:52
WBS Pat	h	Activity ID	Activity Name	I	Original Duration	Remaining Duration	Start	Finish	Activity % Complete	Total Float
BO	UNDARY Boundary Cl	hannel LOS Schedule			513	513	07-16-21	11-21-23		0
	BOUNDARY.1 Genera	i			513	513	07-16-21	11-21-23		0
	1	GEN-1000	NTP		0	0	07-16-21*		0%	1
	1	GEN-1020	Final Punch List		12	12	10-31-23	11-21-23	0%	0
	1	GEN-1025	Final Completion		0	0		11-21-23	0%	0
	BOUNDARY.2 Design				375	375	07-16-21	07-25-22		6
	BOUNDARY.23 SI	urvey			145	145	07-16-21	12-07-21		6
	2.3	DES-1005	Prepare Notification L	etters	7	7	07-16-21	07-22-21	0%	6
	2.3	DES-1010	Property Owner Notifi	cations Waiting Period	30	30	07-23-21	08-21-21	0%	6
	2.3	DES-1015	Supplemental Survey	and Boring Stakeout	108	108	08-22-21	12-07-21	0%	6
	BOUNDARY.27 A	dvanced Work Package			68	68	12-08-21	02-13-22		6
	2.7	DES-6025	Submit AWP Plans		3	3	12-08-21	12-10-21	0%	6
	2.7	DES-6030	VDOT Review of AW	P Plans	21	21	12-11-21	12-31-21	0%	6
	2.7	DES-6035	Comment Resolution	omment Resolution / Revise AWP Plans		21	01-01-22	01-21-22	0%	6
	2.7	DES-6040	RFC AWP Plans for A	FC AWP Plans for Approval		2	01-22-22	01-23-22	0%	6
	2.7	DES-6045	VDOT Review and Ap	VDOT Review and Approval AWP		21	01-24-22	02-13-22	0%	6
	BOUNDARY.211 F	Final Roadway			162	162	02-14-22	07-25-22		6
	2.11	DES-10005	Prepare Final Roadwa	y Plans	82	82	02-14-22	05-06-22	0%	6
	2.11	DES-10010	Design QA / QC of Fi	nal Roadway Plans	9	9	05-07-22	05-15-22	0%	6
	2.11	DES-10015	Submit Final Roadway	/ Plans	4	4	05-16-22	05-19-22	0%	6
	2.11	DES-10020	VDOT Review Final F	Roadway Plans	21	21	05-20-22	06-09-22	0%	6
	2.11	DES-10025	RFC Final Roadway F	Plans	18	18	06-10-22	06-27-22	0%	6
	2.11	DES-10030	VDOT Review and Ap	prove Final Roadway Plans	21	21	06-28-22	07-18-22	0%	6
	2.11	DES-10035	AFC Final Roadway F	FC Final Roadway Plans Released		7	07-19-22	07-25-22	0%	6
	BOUNDARY.3 Consti	uction			276	276	07-26-22	10-31-23		0
	BOUNDARY.3.2 PI	nase 1			85	85	07-26-22	12-14-22		0
	BOUNDARY.3.2	2 Phase 1B			85	85	07-26-22	12-14-22		0
	BOUNDARY.	3221 Eastbound Bound	dary Channel		3	3	07-26-22	07-28-22		3
	3.2.2.1	A1080	Install Signage and MOT		3	3	07-26-22	07-28-22	0%	3
	BOUNDARY.	3222 NW Quad			23	23	11-01-22	12-14-22		0
	3.2.2.2	A1265	Install Signage and M	T	2	2	11-01-22	11-03-22	0%	0
	3.2.2.2	A1270	Implement Detour of	Existing Ramp	1	1	11-03-22	11-07-22	0%	0
	3.2.2.2	A1275	Install E&S Controls		1	1	11-07-22	11-08-22	0%	0
	3.2.2.2	A1280	Demo Existing Ramp	Demo Existing Ramp		2	11-08-22	11-11-22	0%	0

The complete critical path is depicted on the Proposal Schedule in Volume II.

SCHEDULE MANAGEMENT

The schedule is the most important tool in the construction management process and is an efficient method to communicate the intended sequence and progress of the project to the construction team as well as the project stakeholders. The schedule is an extremely useful and productive planning tool. The Wagman Team takes pride in our detailed advance planning for safe and efficient execution of the work. Our Construction Managers, Superintendents, Safety Professionals, and Craft Supervisors use this critical tool as the first step in developing Activity Hazard Analyses and Activity Work Plans. In addition to early planning, the schedule is used to monitor the project's progress and help identify potential deficiencies and problem areas before they develop into a critical impact.



The project management team will continually review and monitor the schedule and use the information gathered to develop mitigation strategies for any activities that are identified as potential impacts. This proactive approach will ensure that the project continues to move forward and that any potential delays are addressed immediately. A variety of different tools will be utilized to assist with this process, including but not limited to, the following:

- Weekly schedule meetings between the engineering and construction team members during the design phase
- Weekly construction scheduling meetings throughout the duration of the construction process with the construction team (including management)
- Monthly progress meetings to include all project stakeholders, project team members, and subcontractors
- Three-week look ahead schedules

- RFI logs
- Submittal logs
- Work plans
- Subcontract/purchase order logs
- Shop drawing tracking logs
- Weekly manpower and equipment reviews

All of the above referenced tools will be utilized simultaneously to provide a current and realistic picture of the progress and status at any given time. Information will be presented at meetings to all who are involved for the opportunity to discuss and address any concerns in front of all that are affected. This keeps the line of communication open and allows resolutions and recovery strategies to be developed at an early stage; therefore, preventing further conflict. The project schedule will also be critically important to the management of our QA/QC inspection, testing, and documentation efforts. By resource loading our construction activities with crews classified by construction discipline, and reviewing the associated resource histograms on a weekly basis, our team will be able to identify all current and future QA/QC hold points, and to quantify QA/QC coverage and testing resources needed to provide robust quality control in a timely and efficient manner. QA/QC Testing and hold points are incorporated in the durations for our construction activities and will be broken out on the project's baseline schedule.

SUBCONTRACTOR AND MATERIAL SUPPLIER SCHEDULING

Subcontractors and material suppliers are a critical part of the project schedule. The Wagman Team will closely evaluate each subcontractor and supplier based on quality, performance, and reputation. Beginning with the initial subcontract paperwork, each subcontractor will be intimately involved with every aspect of the project schedule, and their input will be vital. Suppliers will go through a similar process. This includes progress meetings, weekly look-ahead schedules, material submittals, and recovery strategies if needed. Accountability is the key to effective subcontractor and supplier management, and it will be perfectly clear that subcontractors and suppliers will be held accountable for all aspects of their work from quality to schedule.

SCHEDULE RECOVERY

Unexpected issues and unforeseen conditions are a possibility during the construction process. The Wagman Team includes many experienced and well-respected members in the D-B field with the ability to recognize and react to any issues that may arise. We will aggressively manage the project and, if needed, mitigate any issues that affect the construction schedule. If necessary, a schedule recovery strategy will be developed, immediately implemented, and closely monitored until the schedule is recovered.

PROPOSAL SCHEDULE IN ELECTRONIC FORMAT

The Wagman Team has provided a copy of the Proposal Schedule and narrative in PDF format as well as a copy of the Proposal Schedule's source document in XER format.



APPENDIX



4.0.1.1

ATTACHMENT 4.0.1.1 –

Letter of Submittal and Attachments Checklist



ATTACHMENT 4.0.1.1

Boundary Channel Drive at I-395 Interchange

LETTER OF SUBMITTAL AND ATTACHMENTS CHECKLIST

Offerors shall furnish a copy of this Letter of Submittal Checklist, with the page references added, with the Letter of Submittal.

Technical Proposal Component	Form (if any)	RFP Part 1 Cross Reference	Page Reference	
Letter of Submittal and Attachments Checklist	Attachment 4.0.1.1	Section 4.0.1.1	Volume I – Appendix – page 12	
Acknowledgement of RFP, Revisions, and/or Addenda	Attachment 3.6 (Form C-78-RFP)	Sections 3.6, 4.0.1.1	Volume I – Appendix – page 15	
Letter of Submittal	NA	Sections 4.1		
Letter of Submittal on Offeror's letterhead	NA	Section 4.1.1	Volume I – pages 1 & 2	
Offeror's official representative information	NA	Section 4.1.1	Volume I – page 1	
Authorized representative's original signature	NA	Section 4.1.1	Volume I – page 2	
Declaration of intent	NA	Section 4.1.2	Volume I – page 1	
120 day declaration	yes	Section 4.1.3	Volume I – page 1	
Point of Contact information	yes	Section 4.1.4	Volume I – pages 1 & 2	
Principal Officer information	NA	Section 4.1.5	Volume I – page 2	
Interim Milestone and Final Completion Dates	NA	Section 4.1.6	Volume I –	

ATTACHMENT 4.0.1.1

Boundary Channel Drive at I-395 Interchange

LETTER OF SUBMITTAL AND ATTACHMENTS CHECKLIST

Technical Proposal Component	Form (if any)	RFP Part 1 Cross Reference	Page Reference
			page 2
Proposal Payment Agreement or Waiver of Proposal Payment	Attachment 9.3.1 or 9.3.2	Section 4.1.7	Volume I – Appendix – page 17
Certification Regarding Debarment Forms	Attachment 11.8.6(a) Attachment 11.8.6(b)	Section 4.1.8	Volume I – Appendix – pages 21-27
Written statement of percent DBE participation	NA	Section 4.1.9	Volume I – page 2
Attachments to the Letter of Submittal	NA	Section 4.2	
Confirmation that the information provided in the SOQ submittal remains true and accurate or indicates that any requested changes were previously approved by VDOT	NA	Section 4.2.1	Volume I – page 3
Organizational chart with any updates since the SOQ submittal clearly identified	NA	Section 4.2.1	Volume I – page 4 (no updates)
Revised narrative when organizational chart includes updates since the SOQ submittal	NA	Section 4.2.1	Volume I – pages 3 & 5 (no updates)
Conceptual Roadway Plans	NA	Section 4.2.2	Volume II – pages 1-9a

ATTACHMENT 4.0.1.1

Boundary Channel Drive at I-395 Interchange

LETTER OF SUBMITTAL AND ATTACHMENTS CHECKLIST

Technical Proposal Component	Form (if any)	RFP Part 1 Cross Reference	Page Reference
Proposal Schedule	NA	Section 4.2.4	
Proposal Schedule	NA	Section 4.2.4.1	Volume II – pages 10-14
Proposal Schedule Narrative	NA	Section 4.2.4.2	Volume I – pages 6-11
Proposal Schedule in electronic format	NA	Section 4.2.4	PDF and source document uploaded to Bid Express

3.6, 4.0.1.1

```
ATTACHMENT
3.6 –
```

Form C-78 Acknowledgment of RFP, Revisions, and/or Addenda



Form C-78-RFP

ATTACHMENT 3.6

COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

RFP NO. C00116394DB109 **PROJECT NO.:** 6587-000-R89

ACKNOWLEDGEMENT OF RFP, REVISION AND/OR ADDENDA

Acknowledgement shall be made of receipt of the Request for Proposals (RFP) and/or any and all revisions and/or addenda pertaining to the above designated project which are issued by the Department prior to the Letter of Submittal submission date shown herein. Failure to include this acknowledgement in the Letter of Submittal may result in the rejection of your proposal.

By signing this Attachment 3.6, the Offeror acknowledges receipt of the RFP and/or following revisions and/or addenda to the RFP for the above designated project which were issued under cover letter(s) of the date(s) shown hereon:

1.	Cover letter of	RFP – February 24, 2021
		(Date)
2.	Cover letter of	RFP Addendum No. 1 – April 9, 2021
		(Date)
3.	Cover letter of	RFP Addendum No.2 – April 28, 2021
		(Date)
4.	Cover letter of	RFP Addendum No. 3 – May 6, 2021
		(Date)

SIGNATURE

PRINTED NAME

106/2021 DATE Vico Pa-

TITLE

CERTIFICATE OF SECRETARY OF WAGMAN HEAVY CIVIL, INC.

The Undersigned, being the Secretary of Wagman Heavy Civil, Inc., hereby certifies that

the following Resolutions have been previously adopted by unanimous consent of the Board of

Directors:

RESOLVED, that the following individuals be hereby elected to serve in the offices set forth opposite their names, until the next regularly scheduled election of officers:

Chairman of the Board Chief Executive Officer President/COO Sr. Vice President Vice President – Design-Build/Major Pursuits, Mid-Atlantic Vice President/General Manager, Virginia Operations Vice President – Geotechnical Construction Services Sr. Vice President Sr. Vice President Sr. Vice President – CFO/Treasurer Vice President/General Counsel/Secretary Assistant Secretaries Richard E. Wagman Michael B. Glezer Gregory M. Andricos Todd E. Becker Anthony W. Bednarik Glen K. Mays Edward R. Laczynski Joseph G. Wagman Lisa W. Glezer John R. Coppage, IV Kevin J. McKeon Wanda S. Turner Jeanie P. Jones

FURTHER RESOLVED, that Richard E. Wagman, Michael B. Glezer, Gregory M. Andricos, Todd E. Becker, Anthony W. Bednarik, Glen K. Mays, and Edward R. Laczynski are each individually authorized and empowered to execute, acknowledge, and deliver such documents, instructions, and papers, and to perform such acts as may be legally, properly, or reasonably required or necessary for the purpose of procuring and executing any bids, bonds, or contracts on behalf of Wagman Heavy Civil, Inc.

Date: April 23, 2021

Kevin J. McKeon, Secretary

4.1.7

ATTACHMENT 9.3.1–

Proposal Payment Agreement



ATTACHMENT 9.3.1 PROPOSAL PAYMENT AGREEMENT

THIS PROPOSAL PAYMENT AGREEMENT (this "Agreement") is made and entered into as of this 12th day of May, 2021, by and between the Virginia Department of Transportation ("VDOT"), and Wagman Heavy Civil, Inc. ("Offeror").

WITNESSETH:

WHEREAS, Offeror is one of the entities who submitted Statements of Qualifications ("SOQs") pursuant to VDOT's October 21, 2020 Request for Qualifications ("RFQ") and was invited to submit proposals in response to a Request for Proposals ("RFP") for the Boundary Channel Drive at I-395 Interchange, Project No. 6587-000-R89, P101, R201, C501 ("Project"), under a design-build contract with VDOT ("Design-Build Contract"); and

WHEREAS, as part of the procurement process for the Project, Offeror has already provided and/or furnished to VDOT, and may continue to provide and/or furnish to VDOT, certain intellectual property, materials, information and ideas, including, but not limited to, such matters that are: (a) conveyed verbally and in writing during proprietary meetings or interviews; and (b) contained in, related to or associated with Offeror's proposal, including, but not limited to, written correspondence, designs, drawings, plans, exhibits, photographs, reports, printed material, tapes, electronic disks, or other graphic and visual aids (collectively "Offeror's Intellectual Property"); and

WHEREAS, VDOT is willing to provide a payment to Offeror, subject to the express conditions stated in this Agreement, to obtain certain rights in Offeror's Intellectual Property, provided that Offeror submits a proposal that VDOT determines to be responsive to the RFP ("Offeror's Proposal"), and either (a) Offeror is not awarded the Design-Build Contract; or (b) VDOT cancels the procurement or decides not to award the Design-Build Contract to any Offeror; and

WHEREAS, Offeror wishes to receive the payment offered by VDOT, in exchange for granting VDOT the rights set forth in this Agreement.

NOW, THEREFORE, in consideration of the mutual covenants and agreements set forth in this Agreement and other good and valuable consideration, the receipt and adequacy of which are acknowledged by the parties, the parties agree as follows:

Vol. I-

Page 17

Request for Proposals Part 1 Instructions for Offerors February 24, 2021

1. <u>VDOT's Rights in Offeror's Intellectual Property</u>. Offeror hereby conveys to VDOT all rights, title and interest, free and clear of all liens, claims and encumbrances, in Offeror's Intellectual Property, which includes, without restriction or limitation, the right of VDOT, and anyone contracting with VDOT, to incorporate any ideas or information from Offeror's Intellectual Property into: (a) the Design-Build Contract and the Project; (b) any other contract awarded in reference to the Project; or (c) any subsequent procurement by VDOT. In receiving all rights, title and interest in Offeror's Intellectual Property, VDOT is deemed to own all intellectual property rights, copyrights, patents, trade secrets, trademarks, and service marks in Offeror's Intellectual Property, and Offeror agrees that it shall, at the request of VDOT, execute all papers and perform all other acts that may be necessary to ensure that VDOT's rights, title and interest in Offeror's ability to use Offeror's Intellectual Property without the obligation to notify or seek permission from Offeror.

2. <u>Exclusions from Offeror's Intellectual Property</u>. Notwithstanding Section 1 above, it is understood and agreed that Offeror's Intellectual Property is not intended to include, and Offeror does not convey any rights to, the Escrow Proposal Documents submitted by Offeror in accordance with the RFP.

3. <u>Proposal Payment.</u> VDOT agrees to pay Offeror the lump sum amount of Fifteen Thousand and 00/100 Dollars (\$15,000.00) ("Proposal Payment"), which payment constitutes payment in full to Offeror for the conveyance of Offeror's Intellectual Property to VDOT in accordance with this Agreement. Payment of the Proposal Payment is conditioned upon: (a) Offeror's Proposal being, in the sole discretion of VDOT, responsive to the RFP; (b) Offeror complying with all other terms and conditions of this Agreement; and (c) either (i) Offeror is not awarded the Design-Build Contract, or (ii) VDOT cancels the procurement or decides not to award the Design-Build Contract to any Offeror.

4. <u>Payment Due Date</u>. Subject to the conditions set forth in this Agreement, VDOT will make payment of the Proposal Payment to the Offeror within forty-five (45) days after the later of: (a) notice from VDOT that it has awarded the Design-Build Contract to another Offeror; or (b) notice from VDOT that the procurement for the Project has been cancelled and that there will be no Contract Award.

5. <u>Effective Date of this Agreement</u>. The rights and obligations of VDOT and Offeror under this Agreement, including VDOT's ownership rights in Offeror's Intellectual Property, vests upon the date that Offeror's Proposal is submitted to VDOT. Notwithstanding the above, if Offeror's Proposal is determined by VDOT, in its sole discretion, to be nonresponsive to the RFP, then Offeror is deemed to have waived its right to obtain the Proposal Payment, and VDOT shall have no obligations under this Agreement.

6. <u>Indemnity</u>. Subject to the limitation contained below, Offeror shall, at its own expense, indemnify, protect and hold harmless VDOT and its agents, directors, officers, employees, representatives and contractors from all claims, costs, expenses, liabilities, demands, or suits at law or equity ("Claims") of, by or in favor of or awarded to any third party arising in whole or in part from: (a) the negligence or wilful misconduct of Offeror or any of its agents, officers, employees, representatives or subcontractors; or (b) breach of any of Offeror's obligations under this Agreement, including its representation and warranty under Section 8 hereof. This indemnity shall not apply with respect to any Claims caused by or resulting from the sole negligence or wilful misconduct of VDOT, or its agents, directors, officers, employees, representatives.

7. <u>Assignment</u>. Offeror shall not assign this Agreement, without VDOT's prior written consent, which consent may be given or withheld in VDOT's sole discretion. Any assignment of this Agreement without such consent shall be null and void.

8. <u>Authority to Enter into this Agreement</u>. By executing this Agreement, Offeror specifically represents and warrants that it has the authority to convey to VDOT all rights, title, and interest in Offeror's Intellectual Property, including, but not limited to, those any rights that might have been vested in team members, subcontractors, consultants or anyone else who may have contributed to the development of Offeror's Intellectual Property, free and clear of all liens, claims and encumbrances.

9. <u>Miscellaneous.</u>

a. Offeror and VDOT agree that Offeror, its team members, and their respective employees are not agents of VDOT as a result of this Agreement.

b. Any capitalized term used herein but not otherwise defined shall have the meanings set forth in the RFP.

c. This Agreement, together with the RFP, embodies the entire agreement of the parties with respect to the subject matter hereof. There are no promises, terms, conditions, or obligations other than those contained herein or in the RFP, and this Agreement shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties hereto.

d. It is understood and agreed by the parties hereto that if any part, term, or provision of this Agreement is by the courts held to be illegal or in conflict with any law of the Commonwealth of Virginia, validity of the remaining portions or provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the Agreement did not contain the particular part, term, or provisions to be invalid.

e. This Agreement shall be governed by and construed in accordance with the laws of the Commonwealth of Virginia.

IN WITNESS WHEREOF, this Agreement has been executed and delivered as of the day and year first above written.

VIRGINIA DEPARTMENT OF TRANSPORTATION

By:

Name: _____

Title:

Wagman Heavy Civil Inc.

By:

Name: Anthony W. Bednarik

Title: Vice President



CERTIFICATION REGARDING DEBARMENT FORMS



ATTACHMENT 11.8.6(a) –

Certification Regarding Debarment Primary Covered Transactions



ATTACHMENT 11.8.6(a) **CERTIFICATION REGARDING DEBARMENT PRIMARY COVERED TRANSACTIONS**

Project No.: 6587-000-R89, P101, R201, C501

The prospective primary participant certifies to the best of its knowledge and belief, that 1) it and its principals:

Are not presently debarred, suspended, proposed for debarment, declared a) ineligible, or voluntarily excluded from covered transactions by any Federal department or agency.

Have not within a three-year period preceding this proposal been convicted of or **b**) had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction: and have not been convicted of any violations of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification, or destruction of records, making false statements, or receiving stolen property;

Are not presently indicted for or otherwise criminally or civilly charged by a c) governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 1) b) of this certification; and

d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

Where the prospective primary participant is unable to certify to any of the statements in 2) this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

5/9/2021

VICE PRESIDENT

HEAN, Civic INC. 1AN

ATTACHMENT 11.8.6(b) –

Certification Regarding Debarment Lower Tier Covered Transactions



<u>ATTACHMENT 11.8.6(b)</u> <u>CERTIFICATION REGARDING DEBARMENT</u> <u>LOWER TIER COVERED TRANSACTIONS</u>

Project No.: 6587-000-R89, P101, R201, C501

1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

to t 5/12/2021 Signature Date

_____ <u>President/CEO</u>_____ Title

Rinker Design Associates, P.C. Name of Firm

<u>ATTACHMENT 11.8.6(b)</u> <u>CERTIFICATION REGARDING DEBARMENT</u> <u>LOWER TIER COVERED TRANSACTIONS</u>

Project No.: 6587-000-R89, P101, R201, C501

1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

A.D.	4/22/2021	President
Signature	Date	Title

CES Consulting LLC Name of Firm

ATTACHMENT 11.8.6(b) CERTIFICATION REGARDING DEBARMENT LOWER TIER COVERED TRANSACTIONS

Project No.: 6587-000-R89, P101, R201, C501

1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

April 22, 2021 Date Signature

President and CEO Title

DMY Engineering Consultants Inc. Name of Firm

<u>ATTACHMENT 11.8.6(b)</u> <u>CERTIFICATION REGARDING DEBARMENT</u> <u>LOWER TIER COVERED TRANSACTIONS</u>

Project No.: 6587-000-R89, P101, R201, C501

1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

President Signature Title Date

Dulles Geotechnical and Material Testing Services, Inc. Name of Firm

<u>ATTACHMENT 11.8.6(b)</u> <u>CERTIFICATION REGARDING DEBARMENT</u> <u>LOWER TIER COVERED TRANSACTIONS</u>

Project No.: 6587-000-R89, P101, R201, C501

1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

Soh	Desgual	April 22, 2021	Senior Vice President, Transportation
Signature	Date		Title

ATCS, PLC

Name of Firm
<u>ATTACHMENT 11.8.6(b)</u> <u>CERTIFICATION REGARDING DEBARMENT</u> <u>LOWER TIER COVERED TRANSACTIONS</u>

Project No.: 6587-000-R89, P101, R201, C501

1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

April 22. Date Signature

<u>President/Principal</u> Title

<u>Floura Teeter Landscape Architects, Inc.</u> Name of Firm







Letter of Submittal and Attachments for:

BOUNDARY CHANNEL DRIVE AT I-395 INTERCHANGE DESIGN-BUILD PROJECT

MAY 12, 2021

FROM: 0.06 MILES WEST OF CONNECTOR ROAD TO: LONG BRIDGE DRIVE STATE PROJECT NO.: 6587-000-R89, P101, R201, C501 FEDERAL PROJECT NO.: NHPP-5B01(120)



VOLUME II

VDOT I-95 / Temple Avenue Interchange Design-Build

VDOT Odd Fellows Road Interchange Design-Build

> VDOT Route 7 Widening over Dulles Toll Road Design-Build



CONCEPTUAL ROADWAY PLANS







COMMONWEALTH OF VIRGINIA

DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

COUNTY OF ARLINGTON BOUNDARY CHANNEL DRIVE (ROUTE 6587) & 1-395 INTERCHANGE IMPROVEMENTS FROM: BOUNDARY CHANNEL 0.06 MI.WEST OF CONNECTOR ROAD TO:LONG BRIDGE DRIVE

Project Lengths are based on Boundary Channel Drive and Long Bridge Drive Baselines.

CONVENTIONAL SIGNS

STATE LINE	
COUNTY LINE	
CITY.TOWN OR VILLAGE	
RIGHT OF WAY LINE	
FENCE LINE	×
UNFENCED PROPERTY LINE	¢
FENCED PROPERTY LINE	k
WATER LINE	
SANITARY SEWER LINE	
GAS LINE –	46
ELECTRIC UNDERGROUND CABLE	• £ -
TRAVELED WAY	
GUARD RAIL	
RETAINING WALL	
RAILROADS	+++++
BASE OR SURVEY LINE	
	20
	m ±1

LEVEE OR EMBANKMENT	
CULVERTS	F
DROP INLET	
POWER POLES	
TELEPHONE OR TELEGRAPH POLES	
TELEPHONE OR TELEGRAPH LINES	
HEDGE	Carrieran
TREES	00000
HEAVY WOODS	
GROUND ELEVATION	
GRADE ELEVATION	DATUM LINE

THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY AS AWARDED, HAS BEEN <u>SEALED</u> AND <u>SIGNED</u> USING DIGITAL SIGNATURES AND THE OFFICIAL PLAN ASSEMBLY IN ELECTRONIC FORMAT IS STORED IN THE VDOT CENTRAL OFFICE PLAN LIBRARY, INCLUDING ALL SUBSEQUENT REVISIONS, WILL BE THE OFFICIAL CONSTRUCTION PLANS. FOR INFORMATION RELATIVE TO ELECTRONIC FILES AND LAYERED PLANS, SEE THE GENERAL NOTES.

DESIGN FEATURES RELATING TO CONSTRUCTION OR TO REGULATION AND CONTROL OF TRAFFIC MAY BE SUBJECT TO CHANGE AS DEEMED NECESSARY BY THE DEPARTMENT.

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT'S 2020 ROAD AND BRIDGE SPECIFICATIONS, 2016 ROAD AND BRIDGE STANDARDS, 2009 MUTCD, 2011 VIRGINIA SUPPLEMENT TO THE MUTCD, 2011 VIRGINIA WORK AREA PROTECTION MANUAL AND AS AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC PDF VERSION OF THE PLAN ASSEMBLY.

ALL CURVES ARE TO BE SUPERELEVATED, TRANSITIONED AND WIDENED IN ACCORDANCE WITH STANDARD TC 5.11U, EXCEPT WHERE OTHERWISE NOTED.

THE <u>ORIGINAL</u> APPROVED TITLE SHEET(S), INCLUDING ORIGINAL SIGNATURES, ARE FILED IN THE VDOT CENTRAL OFFICE PLAN LIBRARY. ANY MISUSE OF ELECTRONIC FILES, INCLUDING SCANNED SIGNATURES, IS ILLEGAL AND ENFORCED TO THE FULL EXTENT OF THE LAW.

	h-			PROJ.	6587-000-R89,	PIOI, R20I, C50	ומ					
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	P101	NHPP-5B01(120)	PENG	116394	N/A	2258.02	0.428	2258.02	0.428	N/A	PREL. ENGR.	FROM: BOUNDARY
6												TO: LONG BRIDGE
9-R8	R201	NHPP-5B01(120)	ROWA	116394	N/A	2258.02	0.428	2258.02	0.428	N/A	R.O.W.	FROM: BOUNDARY (WEST OF CONNECT
200-	05.01		1000	110 70 1		0050.00	0.400	0050.00	0.400		CONCTR	TO: LONG BRIDGE
587.	C501	NHPP-5801(120)	1000	116394	N/A	2258.02	0.428	2258.02	0.428	N/A	CONSTR.	WEST OF CONNECT
9			1						1			LIU: LUNG BRIDGE L

FHWA 534 DAT

2:24:06 PM

Plotted By: wdelong

	LIMITED	ACCESS HIGHWAY	By Resolution dated Oc	ution of Highway Commission tober 4, 1956		
	CT ATC	FEDERAL AID		STATE	SHEET	
	STATE	PROJECT	ROUTE	PROJECT	NO.	
	VA.	NHPP-5BOI()	6587	6587-000-R89	1	
TA - 46104		(SEE TABULATION BELOW FOR SECTION NUMBERS)		(SEE TABULATION BELOW FOR SECTION NUMBERS)		
EUNC.						
FUNC	HUNAL	CLASSIFICATION	AND	TRAFFIC DATA		
l	BOUNDARY	CHANNEL DRIVE - URE	BAN MIN	OR COLLECTOR		
	Fr: 0.06 Mi	WEST OF CONNECTOR RD				
	To:LONG BRIDGE DRIVE					
DT (2020)	5900					
DT (2040)	8650					
нν	850					
) (%) (design hour)	<u>64%</u>					
(%)(design hour)	3%) RD				
/ (MPH)	30 MPH*					
ITIONAL TRAFFIC DATA ON SHEET IB SEE PLAN SHEETS FOR ROUNDABOUT DESIGN SPEEDS ALL ROUNDABOUTS TO BE DESIGNED PER NCHRP-672.						

EXCE	PTION TO	VERTICAL	CLEARANCE
LOCATION	EXISTING CLEARANCE	PROPOSED CLEARANCE	AASHTO MINIMUM VERTICAL CLEARANCE
BOUNDARY CHANNEL DR. UNDER I-395	13'-8''	14'-5"	14'-6''

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.



		TIER	2 PROJECT	
		RECOMMEND FOR RIGHT C	ED FOR APPROVAL DF WAY ACQUISITION	
			TURE INVESTMENT DIRECTOR	
			ATION AND DESIGN ENGINEER	
			CIAL OFFICER	
		CHIEF ENGIN	EER	
		APPROVED FOR RIG	GHT OF WAY ACQUIS	SITION
		CHIEF OF PO	DLICY	
		RECOMMENDED FOR AF	PPROVAL FOR CONSTRU	JCTION
			TURE INVESTMENT DIRECTOR	
	REVISED	STATE LOCA	ATION AND DESIGN ENGINEER	
	4/01/21	STATE STRU	ICTURE AND BRIDGE ENGINEER	
			CIAL OFFICER	
DESCRIPTION		APPROVED F	FOR CONSTRUCTION	
NNÉCTOR ROAD DGE DRIVE ARY CHANNEL 0.06 MI.			EER — — — — — — —	
NNECTOR ROAD DGE DRIVE		AF	PPROVED	
ARY CHANNEL 0.06 MI. INECTOR ROAD DGE DRIVE		DIVISION AD FEDERAL HIC U.S. DEPARTI	MINISTRATOR	
		Copyright 2020, Cor	mmonwealth of Virgir	nia
			PROJECT 6587-000-R89	SHEET I

PROJECT MANAGER_Chr.Is. Barksdale. P.E., (ZO3) 259-2Z68. (NOVA)_______ SURVEYED BY, DATE Brian_P. Eletcher_L.S., (ZO3) 259-2355. (I2/04/2018). (NOVA) SURVETED UTILITY BY, DATE Accumark_1ac. (203) 635:3060 (022/5/20/9)

INDEX OF SHEETS *- NOT INCLUDED IN THIS

	SHEET NO.	DESCRIPTION	
	1	TITLE SHEET	
	<i>і</i> А Ж	LOCATION MAP	
	IB	INDEX OF SHEET	rs
	IC	UTILITY INFORMAT	
\mathbb{R}	IE	REVISION DATA S	CHEET >
	2A(1)-2A(4)	TYPICAL SECTION	s
	2B	DETAILS	
	3	PLAN SHEET	- BOUNDARY CHANNEL DRIVE STA. 100-00 TO STA. 107-00
			- CONNECTOR ROAD
			-PUMP ACCESS ROAD
	3A	PROFILE SHEET	- BOUNDARY CHANNEL DRIVE STA. 100+00 TO STA.107+00
	3A(1)	PROFILE SHEET	- CONNECTOR ROAD
			- PUMP ACCESS ROAD
	4	PLAN SHEET	- BOUNDARY CHANNEL DRIVE STA. 107+00 TO STA. 114+00
			- RAMP AB STA. 100.00 TO STA. 102.00
			- ROUNDABOUT WEST
			- SUP STA. 10.00 TO STA. 11.50
	4A	PROFILE SHEET	- BOUNDARY CHANNEL DRIVE STA.107+00 TO STA.114+00
	4A(I)	PROFILE SHEET	-RAMPB AB
	4A(2)	PROFILE SHEET	-WEST ROUNDABOUT
	4A(3)	PROFILE SHEET	- SUP WI STA. 10.00 TO STA. 13.00
	4A(4)	PROFILE SHEET	- SUP W2 STA. 2000 TO STA. 2419.42
	5	PLAN SHEET	- BOUNDARY CHANNEL DRIVE STA, 114-00 TO STA, 118-55.73
			- LONG BRIDGE DRIVE
			-RAMP E STA. 402.50 TO STA. 402.78.26
			-RAMP FI
			-RAMP F2
			- EAST ROUNDABOUT
	5A	PROFILE SHEET	- BOUNDARY CHANNEL DRIVE STA.114.00 TO STA.118.55.73
	5A(I)	PROFILE SHEET	- LONG BRIDGE DRIVE
	5A(2)	PROFILE SHEET	-RAMP FI
	5A(3)	PROFILE SHEET	-RAMP F2
	5A(4)	PROFILE SHEET	- EAST ROUNDABOUT
	5A(5)	PROFILE SHEET	- SUP E STA. 30.00 TO 32.41.50
	6	PLAN SHEET	- RAMP AB STA. 102.00 TO STA. 105.49,17
	6A	PROFILE SHEET	- SUP STA. 13.00 TO STA. 18.25
	7	PLAN SHEET	- RAMP E STA. 400.00 TO STA. 402.50
	7A	PROFILE SHEET	-RAMP E
	8	PLAN SHEET	- SUP STA 16•25 TO STA 19•34.23
	8A	PROFILE SHEET	- SUP STA. 18+25 TO STA. 21+32.44
	9	PLAN SHEET	- I-395 SB
	9A	PROFILE SHEET	- 1-395 SB

BOUNDARY CHANNEL DRIVE & I-395 INTERCHANGE IMPROVE FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA

ROUTE	BOUNDARY CHANNEL DR.	LONG BRIDGE DR.	CONNECTOR ROA
From:	550' WEST OF CONNECTOR ROAD		
То:	LONG BRIDGE DRIVE	BOUNDARY CHANNEL DR. AQUATIC CENTER	BOUNDARY CHANNEL D PENTAGON POWER PLA
FUNCTIONAL CLASSIFICATION	URBAN MINOR COLLECTOR	URBAN MAJOR COLLECTOR	URBAN LOCAL STREET
MIN. DESIGN SPEED	30 MPH	25 MPH	25 MPH
ADT (2020)	5,900	5,700	2,000
ADT (2040)	8,650	8,200	2,250
DHV (2040)	850	850	375
D (%) (design hour)	64.0%	64.0%	60.0%
T (%) (design hour)	R { 3.0% }	3.0%	3.0%
V (MPH)	30 MPH [1]	25 MPH	25 MPH
TC STD.	TC-5.11U (emax 4%)	TC-5.11ULS (emax 2%)	TC-5.11ULS (emax
GEOMETRIC STD.	GS-7	GS-7	GS-8

[1] Roundabout V=25 MPH

BOUNDARY CHANNEL DRIVE & I-395 INTERCHANGE IMPROV FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA

ROUTE	RAMP AB (I-395 SB Off Ramp)	RAMP AB (I-395 SB On Ramp)	RAMP E
From: To:	I-395 SOUTHBOUND BOUNDARY CHANNEL DR.	BOUNDARY CHANNEL DR. I-395 SOUTHBOUND	I-395 NORTHBOUND BOUNDARY CHANNEL DR
FUNCTIONAL CLASSIFICATION	INTERSTATE RAMP	INTERSTATE RAMP	INTERSTATE RAMP
MIN. DESIGN SPEED	30 MPH	20 MPH	20 MPH
ADT (2020)	2,600	1,900	1,600
ADT (2040)	3,350	2,550	2,550
DHV (2040)	530	280	150
D (%) (design hour)	100.0%	100.0%	100.0%
T (%) (design hour)	3%	5%	6%
V (MPH)	30 MPH	20 MPH	20 MPH
TC STD.	TC-5.11R (emax 8%)	TC-5.11R (emax 8%)	TC-5.11R (emax 8%
GEOMETRIC STD.	GS-R	GS-R	GS-R

Plotted By:wdelong

		REVISED	OTATE		STATE	CUEET NO.
		4/01/21		ROUTE	PROJECT	STILET NO.
PL	AN SET		VA.	6587	6587-000-R89, PIOI, R20I, C50I	IB
		DESIGN FEATU OR TO REGULA MAY BE SUBJI NECESSARY BY	L IRES RELA ATION AND ECT TO C (THE DE	L ATING TO D CONTR HANGE A PARTMEN	L D CONSTRUCTION OL OF TRAFFIC NS DEEMED NT	
ΈM	ENTS -					
C	I-395 SB					
₹. \T	BOUNDARY CHANNEL JEFFERSON DAVIS	DR. HWY				
	INTERSTATE	Ξ				
	60 MPH					
	88,200					
	93,500					
	7,075					
	1.0%					
	8.0%					
	55 MPH					
2%)	TC-5.11 (emax	4%)				
	GS-INT					
ΈM	ENTS -					
	RAMP F					
	I-395 NORTHBOUN LONG BRIDGE DF	D R.				
	INTERSTATE RAMP					

25 MPH 3,800 4,100 770 100.0% 3% 25 MPH TC-5.11R (emax 8%) GS-R

CONCEP	TUAL
ROADWAY	PLANS

THESE PLANS ARE UNFINISHED AND UNAPPROVED AND ARE NOT TO BE USED FOR ANY TYPE OF CONSTRUCTION OR THE ACQUISITION OF RIGHT OF WAY.

PROJECT

6587-000-R89

SHEET NO. ΙB

PROJECT MANAGER <u>Chris Barksdale P.E.</u> (203) 259-2268. (NOVA) ______ SURVEYED BY, DATE Brian P.E. Hetcher L.S., (203) 259-2355. (12/04/20/8) (NOVA) DESIGN BY Rummel, Klepper, & Kahl LLP, (703) 246-0028 ____ SUBSURFACE UTILITY BY, DATE Accumark, Iac. (703) 635-3060 (022/5/2019)

— Unk -

UTILITY INFORMATION

UTILITY LEGEND

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U W	Unknown Hand Hole Unknown Manhole	5T - 10-	Water Steam Manhole Water Steam Vent Pipe
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- Unk - - - - - - - - - - - Depicted According To Utility Records ** - Unk - - - - - - - - - - - - Abandoned According To Utility Records ** — — — — — — 🗴 — — According To Miss Utility Information 🕶 * Designate size (Variable from 0.75" to 54") ** Designate type (Unknown line is shown)

Utility Owners:

Electric:

Dominion Virginia Power (DOM) 701 E. Cary Street Richmond, VA Andrew J. Brooks (804) 771-3655

PEPCO 3400 Benning Road NE Washington, DC Stephen J. Park, PE (202) 388-2222

Water & Sewer:

Arlington County (APW) Department Of Environmental Services 2100 Clarendon Bivd., Ste. 813 Arlington, VA Allison C. Smith (703) 228-0648

Telecom:

Verizon (VZN) 9401 Peabody Street Manassass VA William (Bill) Lacy (703) 369-9571

Windstream KDL (WXN) Jerry Richardso (804) 422-4258

Jones Communication (JUC) Robert C. Jones (703) 283-4064

Verizon Business (MCI) 2400 N.Glenville Drive Richardson, TX (800) 624-9675

Zayo Communications (ZAY) 1386| Sunrise Valley Drive, Ste. 450 Herndon, VA Kris Kobvlski (571) 220-4813

FiberLight, LLC (FBL) 950 Herndon Parkway, Ste. 250 Herndon, VA Karl Strootman (410) 979-0384

Century Link, Inc./ Level 3 Communications (LTC) 1025 El Dorado Blvd. Broomfield, CO Pat Provost (720) 888-4686

AT&T Corp. (ATT) 4800 Winchester Blvd. Frederick, MD Gary Wigfield (301) 874-1180 Linard Miller (702) 624-4956

Washington Gas (WGL) 6800 VERSAR Center, Ste. 430 Springfield, VA Mike Edwards (703) 402-1513

General Notes:

Date Of Preliminary Submittal: N/A Date Of Final Submittal: 02/15/2019

Accumark, Inc. Performed An Underground Utility Investigation Effort In January/February 2019 Within The Project Limits Specified By The Client. The Utility Designation Was Performed In Accordance With Quality Level B (Location Depicted Per Electronic Information Obtained) Standards, Or Unless Otherwise Noted Hereon As Quality Levels C Or D, Datur (Location Shown According To Utility Records), Parole Information (Verbal) And By Surface Features.

Quality Control / Quality Assurance Review Performed By Frank R. Richardson, II, L.S. - Accumark, Inc.

The Utility Sizes Shown Herein Are Based On Information Provided By The Utility Company's Owner, By Written Records, By Verbal Information Or By Observed Visual Evidence.

This Survey Is Not A Current Boundary Survey And Does Not Depict Boundary Or Right-Of-Way Information.

Surveyed Locations Of Designated Utilities May Not Represent The Exact Centerline Of The Utility. Test Holes Will Be Necessary To Identify The Exact Centerline.

Utility Field Location Reference Notes:

All Horizontal And Vertical Survey Data Contained In Utility Mapping File "su99580.dgn" Are Referenced To Traverse Stations / Control Points As Shown In A PDF File Entitled "BW_PDF0046-01.pdf" Provided By VDOT Via Email On 11/28/2018.

Any Duplicate Utility Structures Survey Located But Also Found Within The Base Mapping Provided Have Been Utilized By Accumark, Inc's Internal QA/QC Of The Utility Mapping. The Base Mapping Files Utilized Are Entitled "s99580.dgn" Received Via Email From VDQT On 11/28/2018.

Utility Notes: $\langle u \rangle$

 $\langle u2 \rangle$

Area Under Construction, Crews Unable To Designate.

Designator Notes Other Conduits Were Found In This Area But Unable To Designate.

16" x 12" Reducer In Area Per Records.

Fire Hydrant Shown On Records Not Found In Field.

Water Lines Not Shown On Records Provided By Utility Owners.

Multiple Fiber Optic Owners Shown Per Records. Designator Unable To Electronically Locate. Records Indicate Possibility Of Being Located Within WMATA Metro Tunnel.



Gas:

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REVISION DATA SHEET

State Project: 6587-000-R89, P101, R201, C501		
Federal Project: NHPP-5BOI()		
From: UNG REIDCE DEWE		
IPC Number, 116394		
B Date: April 1,2021 Project 6587-000-R89, PI0I, R20I, C50I		
Updated the truck traffic data percentage		
Sheet /B:		
Addea Revision Data Sneet to Index; Updated the truck traffic data percentage Sheet 24(1):		
Revised typical section to call out IO' Asphalt Shared Use Path		
Sheet 2A(2): Revised median callout to St'd MS-IA		
Sheet 2A(4):		
Added typical section to show MB-7F barrier		
Curb modified to the in to MB-7D along Ramp AB		
Sheet 6:		
Sheet 9:		
Paved shoulder along I-395 revised to IO' wide		
(2) Date: April 21 2021 Project 6587-000-R89 PIOL R201 (501		. —
Sheet 2AII):		
Revised typical section to call out change in width to Boundary Channel Drive.		. —
Ramp AB typical section modified to show proposed guardrail		
Sheet 2A(4):		, I
Sheet 3:		.
Mill and overlay, demolition of pavement, and full depth pavement ad justed at		
start of project, Westbound Boundary Channel Drive widened		. —
Eastbound Boundary Channel Drive widened		
Sheets 6 and 8: Removed MB-75, along SUP, Willard, added, guardrail along face of ourb at		,
tying into existing guardrail		
Sheet 9:		
Revised minis of min and overlay, demontion of pavement, and full depitt pavement		. – –
B Date: May 05,2021 Project 6587-000-R89,PI0I, R20I, C50I		
Sneet ZA(I): Revised typical section for Boundary Channel Drive under 1-395.		
Sheet 4:		
Boundary Channel Drive under 1-395 widened.		
Boundary Channel Drive under 1-395 widened.		
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	REVISED 4/01/21	STATE	ROUTE	STATE PROJECT	SHEET NO
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	DESIGN FEATU	RES REL	ATING TO	CONSTRUCTION	
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CUT 31					
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ST'D. CG-2 REQ'D.					
	CUT 3:1 MAA				
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				6587-000-R89	2A(2)



PROJECT MANAGER_<u>Chrls.Barksdale P.E.</u> (203) 259-2268. (NOLAL______ SURVEYED BY, DATE Brian_P.Eletoher_L.S. (203) 259-2355. (12/204/2018) (NOLA) DESIGN BY <u>Bummel, Kiepper, & KahlllP, (703) 246-0028_____</u> SUBSURFACE UTILITY BY, DATE <u>Accumark.lac. (203) 635-3060</u> (102/15/2019)

SUP constr. ₽

TYPICAL SECTIONS



CUT 31 MAX	MINIMUM PAVEMENT SECTIONS SHALL BE IN ACCORDANCE WITH REP.	PART II SECTION 2.6.1 AND A
	Boundary Channel Drive, Ramps, Long Bridge Drive and Connector Road	Roundabout Truck_Apron
$\mathbb{R}^{\mathbb{R}} \left\{ \begin{array}{c} SUPWI \\ STA. TO STA. \\ I0*00 & 20*91.70 \\ \end{array} \right\} \\ 20*00 & 20*71.43 \end{array} \right\}$	Surface: 2" Asphalt Concrete, Type SM-9.5D Intermediate: 2" Asphalt Concrete, Type IM-19.0A Base: 6" Asphalt Concrete, Type BM-25.0A Subbase: 10" Aggregate Base Material, Type I, Size No. 21B connected to a standard UD-4 edgedrain. For widening on the high side of the existing pavement cross-slope, use 6% ₃₂ Cement Treated Aggregate per the VDOT Special Provision for Cement Treated Aggregate in lieu of the 21B. Paved shoulders - use the full depth pavement as specified above.	Surface: 10" Plain Jointed A joint layout pla contraction joint maximum slab d greater than 1.25 Subbase: 14" Aggregate Bas standard UD-4 e for the truck apu
SUP	1-395 Widening and Paved Shoulder	drainage.
CONSTR. VARIES B H ≺ B'TO 60.5' ⊂ ROUNDABOUT OR	Surface: 2" Asphalt Concrete, Type SM-12.5E	Shared Use Path
	PR Intermediate: 2" Asphalt Concrete, Type IM-19.0D Base: 119/32 Asphalt Concrete, Type BM-25.0A	Surface: 2" Asphalt Concre
SI MAX. 61 SLOPE VARIES	Subbase: 10" Aggregate Base Material, Type I, Size No. 21B connected to a standard UD-4 edgedrain. For widening on the high side of the existing	Subbase: 6" Aggregate Bas the edge of the s
2' 12' ASPHALT 1' ASPHALT OR SHARED USE	Special Provision for Cement Treated Aggregate in lieu of the 2/B.	Sidewalk
PATH BOUNDAT CHANNEL BACK OF CURB	Paved shoulders - use the full depth pavement as specified above.	Surface: 4" Hydraulic Cem
STA. TO STA. 21+41.13 24+60		Subbase: 4" Aggregate Bas the edge of the s
BOUNDARY CHANNEL DR ST A. TO ST A. 108+02 109+12 111+06 113+60		
• SLOPE VARIES - SEE PROFILES		
PUMP ACCESS ROAD constr. B	I-395 SB constr. B	
PGL - VARIES = 2X TO EXIST. $CUT 3! MAX. 6!$	PGL MATCH AJDACENT EXISTING LANE CG-3 REC	VDOT ST'D MGS-I REQ'D STA. 100-47.65 TO 101-58.53
STA. TO STA. ! CUT 31 WAX 10+43.44 10+61.36	FULL DEPTH / ST'D. UD-4- SAWCUT REVD. 12 12'TO 14' 10' 14 THRU LANE THRU LANE SHOULDER	
STA. TO STA. 10+61.36 10+74.12	STA. TO STA 100+17.89 103+93	.84

---- 9 Plotted By: ddelong

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Jointed Hydraulic ayout plan shall be on joints,expansion slab dimension fo than 1.25 times the	Cement Co. provided 1 joints,ar pr unreinf smaller s	ncrete for the nd iso orced lab di	e pave e con lation conc mensi	ment per standard PR crete pavement showing joints as necessary. rete pavement shall be ion.	2-2 . 7 The no
ngate Base Material, UD-4 edgedrain.T ruck apron and the ase for the adjacer	Type I,Siz he subgra roundabo ht pavemen	ze No. de foi out pav nt to pi	21B r the vemen rovide	connected to a aggregate subbase (2, t shall be continuous w e continuous subbase	'B) vith
It Concrete,Type SM	-9 . 5A esti	mated	at 2-	40 lbs./sy	
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ulic Cement Concrete	e, <i>Class</i> A	3			
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2A(4)

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PROJECT MANAGER_Chr.is.Barksdale_P.E., (Z03) 259-2768. (MO/A)______ SURVEYED BY, DATE Brian_P.E.Jeicher_L.S., (Z03) 259-2355. (12/04/20/BL/MO/A) DESIGN BY, Buzmeik, Kiepper, & Kohl ILP. (T03) 266-0028________ SUBSURFACE_UTILITY_BY, DATE Accumark_Loc. (Z03) 635-3060. (02/15/2019)







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THESE PLANS ARE UNFINISHED
AND UNAPPROVED AND ARE NOT
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ACQUISITION OF RIGHT OF WAY.

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BOUNDARY CHANNEL DR. PROFILE	19.86 20.16	19.80	20.08	19.59 19.59		19.53 19.63		19.05 19.27		18.81	18.41	18.48	17.99 18.25	Z.62	18.24	17.31		68.8	16.55		1 <u>622</u> 1925	101	18.75	15.46 18.25	15.12 17.15		1474	14.43 16.75	3	1474	15.75	1391	
BUUNDARY CHANNEL DR. PROFILE																																	
BOUNDARY CHANNEL DR. PROFILE BOUNDARY CHANNEL DR. PROFILE BUILDING CONTROL OF CONTROL	•	FULL SU	• 30 I	5.2% RT IPH		•	SE	TRANS.3	3 <u>20%</u> 30 MP	r <u>o -2.0</u> H	0%	⊳⊲				NORI	VAL CF	:UWN -21 • 30 MPH	10% RT				<mark>⊳</mark> si		1 <u>\$2.007</u> / - 30 MP	<u>70 2.00</u> 1		2.0% v • 30	LT MPH	< 2.00½ TÔ V * 30	12.00% MPH	4	
4 4								Lr = 96.4	5 LT	of BL														Lr - 1	3.00° IT	of BL		REVE	RSE	Lr = 51.40' L SE TR	T of BL		7
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PROJECT MANAGER_Chris_Barksdale_P.E., 1703).259-2768. (NOVAL______





















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ACQUISITION OF RIGHT OF WAY.













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PROPOSAL SCHEDULE



Base	eline Schedule Subr	mission BOUI	NDARY			E	Boundary	Channel LOS Schedule	05-10-21 08:20
		1				1			
WBS Pa	ith	Activity ID	Activity Name	Original Duration	Remaining Start Duration	Finish	Float	Aug Son Oct Nov Doc Jon Ech Mar And	2022 Any lun lui Aug San Oct Ney Dec Jan Eeh Mar Anr May lun lui Aug San Oct Ney
BC	UNDARY Boundary Ch	annel I OS Scher		513	513 07-16-21	11-21-23	0	Aug Sep OL Nov Dec Jah Teb Iviai Api I	
	BOUNDARY.1 General			513	513 07-16-21	11-21-23	0		
	1	GEN-1000	NTP	0	0 07-16-21*		1	NTP	
	1	GEN-1010	Submit Scope Validation	0	0	11-12-21*	1	 Submit Scope Validation 	
	1	GEN-1005	Interim Milestone	0	0	09-22-23	39		♦ Interim Mile
	1	GEN-1020	Final Punch List	12	12 10-31-23	11-21-23	0		
	1	GEN-1025	Final Completion	0	0	11-21-23	0		
	BOUNDARY.2 Design			377	377 07-16-21	07-27-22	321		BOUNDARY2 Design
	BOUNDARY.2.1 Qua	ality		48	48 07-16-21	09-01-21	103	BOUNDARY2.1 Quality	
	2.1	DES-0005	Prepare and Submit QA/QC Plan	21	21 07-16-21	08-05-21	103	Prepare and Submit QA/QC Plan	
	2.1	DES-0010	VDOT Review QA/QC Plan	1	1 08-06-21	08-06-21	103		
	2.1	DES-0013		5	5 08-28-21	00-27-21	103		
	BOUNDARY2.2 Sco	ope Validation		120	120 07-16-21	11-12-21	100	BOUNDARY.2.2 Scope Validation	
	2.2	DES0050	Scope Validation Field Investigation	96	96 07-16-21	10-19-21	1	Scope Validation Field Investigation	
	2.2	DES0055	Scope Validation Evaluation	21	21 10-20-21	11-09-21	1	Scope Validation Evaluation	
	2.2	DES0060	Scope Validation Submission of Supporting Documentation	3	3 11-10-21	11-12-21	1	Scope Validation Submission of Support	ing Documentation
	BOUNDARY.2.3 Sur	rvey		145	145 07-16-21	12-07-21	100	BOUNDARY2.3 Survey	
	2.3	DES-1005	Prepare Notification Letters	7	7 07-16-21	07-22-21	6	Prepare Notification Letters	
	2.3	DES-1020	Prepare Utility Test Hole Plan	56	56 07-16-21	09-09-21	147	Prepare Utility Test Hole Plan	
	2.3	DES-1010	Property Owner Notifications Waiting Period	30	30 07-23-21	08-21-21	6	Property Owner Notifications Waiting Period	
	2.3	DES-1015	Supplemental Survey and Boring Stakeout	108	108 08-22-21	12-07-21	6	Supplemental Survey and Boring	Stakeout
	2.3	DES-1025	Obtain Test Hole Data and Updated Designations	42	42 09-10-21	10-21-21	147	Obtain Test Hole Data and Updated Designat	
	BOUNDARY2.4 Geo	otechnical	Desager and Ockasit Davies Dian	266	266 07-16-21	04-07-22	44	Brongert and Submit Paring Plan	IDARY 2.4 Geotechnical
	2.4	DES-2005	VPOT Review Costochnical Raring Plan	/	7 07-16-21	07-22-21	9		
	2.4	DES-2010	Secure Permits and Clear Litilities as Required	21	21 07-23-21	08-20-21	9	Secure Permits and Clear Litilities as Required	
	2.4	DES-2013	Field Investigations Boring Logs and Lab Analysis for Scope Validatio	68	68 08-22-21	10-28-21	8	Field Investigations. Boring Logs and Lab A	nalvsis for Scope Validation
	2.4	DES-2025	Scope Validation Letter to Contractor	5	5 10-29-21	11-02-21	8	Scope Validation Letter to Contractor	
	BOUNDARY2.4.5	5 Roadway GDR		229	229 08-22-21	04-07-22	44	V BOU	IDARY2.4.5; Roadway GDR
	2.4.5	DES-3005	Perform Soil Borings and Lab Work	125	125 08-22-21	12-24-21	9	Perform Soil Borings and Lab	Work
	2.4.5	DES-3010	Prepare Geotech Report and Recommendations	44	44 12-25-21	02-06-22	9	Prepare Geotech R	aport and Recommendations
	2.4.5	DES-3015	QA/QC and Submit GDR	9	9 02-07-22	02-15-22	9	🗖 QA/QC and Subn	it GDR
	2.4.5	DES-3020	VDOT Review GDR	21	21 02-16-22	03-08-22	44	VDOT Revie	v GDR
	2.4.5	DES-3025	Revise and Resubmit GDR	9	9 03-09-22	03-17-22	44	🗖 Revise and	I Resubmit GDR
	2.4.5	DES-3030	VDOT Review and Approval of Revised GDR	21	21 03-18-22	04-07-22	44		Review and Approval of Revised GDR
	BOUNDARY.2.5 Env	viromental		230	230 07-16-21	03-02-22	306	BOUNDARY2	5 Enviromental
	2.5	DES-4025	NPS / DOD Permit Coordination	230	230 07-16-21	03-02-22	8	NPS/ DOD Pe	imit Coordination
	2.5	DES-4005	Vetland Delineation	30	30 08-22-21	09-20-21	111	Phase 1 and 2 ESA	
	2.5	DES-4010		21	21 00-21-21	10-11-21	1/18	Phase 1 and 2 ESA (HOLD POINT)	
	2.5	DES-4020	Water Quality Permit Coordination	60	60 10-08-21	12-06-21	94	Water Quality Permit Coordination	
	BOUNDARY.2.6 Utili	ities		201	201 07-16-21	02-01-22	65	BOUNDARY2.6 Utili	ies
	BOUNDARY 2.6.1	Utility Coordinati	bn	201	201 07-16-21	02-01-22	65	BOUNDARY2.6.1 U	ility Coordination
	2.6.1	DES-5010	Develop and Submit Utility Status Report	120	120 07-16-21	11-12-21	83	Develop and Submit Utility Status Repor	
	2.6.1	DES-5005	Mail UFI Plans	1	1 09-14-21	09-14-21	65	I Mail UFI Plans	
	2.6.1	DES-5015	Utility Field Inspections	1	1 10-19-21	10-19-21	65	Utility Field Inspections	
	2.6.1	DES-5020	Finalize Easements	42	42 10-20-21	11-30-21	65	Finalize Easements	
	2.6.1	DES-5025	Develop P&E's	42	42 12-01-21	01-11-22	65	Develop P&E's	
	2.6.1	DES-5030	P&E VDOT Review and Approvals	21	21 01-12-22	02-01-22	65	P&E VDOT Review a	nd Approvals
	BOUNDARY.2.6.2	2 Utility Design		92	92 07-16-21	10-15-21	174	BOUNDARY 2.6;2 Utility Design	
	2.6.2	DES-5050	In Plan Utility Design	21	21 07-16-21	08-05-21	174		
	2.6.2	DES-5055	VUUT Keview	21	21 08-06-21	08-26-21	183		
	2.0.2	DES-5065		30	10 00 05 21	09-04-21	174		
	2.0.2	DL0-3003		10	10 09-00-21	03-14-21	1/4		
	Domoining L -								
				•				Page 1 of 5	vvagman Heavy Civil, Inc.
	Actual Level o	of Effort	Remaining Work Milestone						

Abor U Oxford Intervent Oxford Intervent Oxford Intervent Oxford Intervent 0.5 DPR-007 Margan Casing Ratas 30 0.5 <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th>D</th><th>oundary</th><th></th></t<>							D	oundary	
1.1 0.5 300 Ard Dish Towns (Nove) 0 0 0.		Activity ID	Activity Name	Original	Remaining	Start	Finish	Total Float	
Control Control <t< th=""><th>262</th><th>DES 5070</th><th>Adjuston County Bovjow</th><th>20</th><th>20</th><th>00 15 21</th><th>10 14 21</th><th>174</th><th>Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep</th></t<>	262	DES 5070	Adjuston County Bovjow	20	20	00 15 21	10 14 21	174	Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep
SUP2: Association Possibility Products (P)	2.0.2	DES-5075		1	30	10-15-21	10-14-21	174	
Official Design DV MD7 (Carding frag Data) All All (M-64) Monte P Design DV MD7 (Carding frag Data) Design DV MD7 (Carding frag Data) <thdesign (carding="" data)<="" dv="" frag="" md7="" th=""> Des</thdesign>	BOUNDARY27 Adva	anced Work Pac	kade	234	234	07-16-21	03-06-22	323	BOUNDARY 2.7 Advanced Work Package
Effection Matheway (Poly) Server (Poly) Perver (Po	27	DES-6005	Develop ROW / MOT / Clearing / Early Grading / Drainage	84	84	07-16-21	10-07-21	38	Develop ROW / MOT / Clearing / Early Grading / Drainage
C54019 Auge 100 Put Blaves 20 00.00241 10.02144 10.02144 10.02	2.7	DES-6010	Preliminary ROW / Easement Acquisition Effort	96	96	08-15-21	11-18-21	410	Preliminary ROW / Easement Acquisition Effort
Description Description Description Test-Print Test-Prin Test-Prin Test-P	27	DES-6015	Prepare ROW Plan Sheets	20	20	10-08-21	10-27-21		Prepare ROW Plan Sheets
DESAUD2 Bisman AMP Prive B S 19494 Bisman AMP Prive B S 19494 Bisman AMP Prive B AMP Prive AMP Pri	27	DES-6020	Design OA/OC of AWP	9	0 0	10-28-21	11-05-21	38	
CE-603 SOL These of AMP Fines 21 21 25 21 25 <td< td=""><td> ? 7</td><td>DES-6025</td><td>Submit AWP Plans</td><td>3</td><td>3</td><td>12-08-21</td><td>12-10-21</td><td>6</td><td>Submit AWP Plans</td></td<>	 ? 7	DES-6025	Submit AWP Plans	3	3	12-08-21	12-10-21	6	Submit AWP Plans
Diskudo Convent Hazanton / House AMP Hans P1 P1<	.7	DES-6030	VDOT Review of AWP Plans	21	21	12-11-21	12-31-21	6	VDOT Review of AWP Plans
DEE-000 IPCAMP Pract for Agrownial D2 2 0 0 0 1 0 1 0 0 <	2.7	DES-6035	Comment Resolution / Revise AWP Plans	21	21	01-01-22	01-21-22	6	Comment Resolution / Revise AWP Plans
DE2-605 VCOT Reverse and Aquinous APP 21 <th21< th=""> 21 21</th21<>	2.7	DES-6040	RFCAWP Plans for Approval	2	2	01-22-22	01-23-22	6	RFC AWP Plans for Approval
DECessod APC/AVP Released 97 7 7 10 20 20 1 10 <td>2.7</td> <td>DES-6045</td> <td>VDOT Review and Approval AWP</td> <td>21</td> <td>21</td> <td>01-24-22</td> <td>02-13-22</td> <td>6</td> <td>VDOT Review and Approval AWP</td>	2.7	DES-6045	VDOT Review and Approval AWP	21	21	01-24-22	02-13-22	6	VDOT Review and Approval AWP
DE-9/05 ROV Authoration 21 </td <td>2.7</td> <td>DES-6050</td> <td>AFCAWP Released</td> <td>7</td> <td>7</td> <td>02-14-22</td> <td>02-20-22</td> <td>18</td> <td>AFCAWP Released</td>	2.7	DES-6050	AFCAWP Released	7	7	02-14-22	02-20-22	18	AFCAWP Released
VEX.V2 United Actors Branco 141<	2.7	DES-6055	ROW Authorization	21	21	02-14-22	03-06-22	323	ROW Authorization
DES-700 Program and Subrit LAC: Request 21 23 24 164-17-0 647-21 302 DES-7015 Revise and Address Comments LAC: Request 9 9 62-37-01 702 DES-7015 Revise and Address Comments LAC: Request 9 9 62-37-01 702 DES-7025 CIB Address Address Homents LAC: Request 9 10-02-21 322 DES-7025 CIB Address Address Homents LAC: Request 100 10-19-32 321 VOCT Revise and Address Comments LAC: Request 100 10-19-32 321 VES-7025 CIB Address Address Homents Kauk 100 100 10-19-32 321 VES-8005 Perform RAV / Earner Adquest Majoration and Paus Iem on CIB Adquest Revises 100 100 10-19-32 321 DES-8005 Referent RAV / Earner Adquest Majoration and Paus Iem on CIB Adquest Revises 100 100 10-19-32 321 DES-8005 Referent RAV / Earner Adquest Majoration and Paus Iem on CIB Adquest Revises 100 <td>JNDARY.2.8 Limit</td> <td>ed Access Char</td> <td>nae</td> <td>144</td> <td>144</td> <td>08-15-21</td> <td>01-05-22</td> <td>362</td> <td>BOUNDARY2.8 Limited Access Change</td>	JNDARY.2.8 Limit	ed Access Char	nae	144	144	08-15-21	01-05-22	362	BOUNDARY2.8 Limited Access Change
DES-700 VDOT Review LACC Request 21 21 00-72 04-72 942 DES-700 VDOT Review LACC Request 0 00-90 10-72 04-72 942 DES-700 VDOT Review LACC Request Address Comments LACC Request Approach (FLD PONT) 10 10-10-22 942 942 DES-700 VDOT Review LACC Request Approach (FLD PONT) 10 10-10-22 947 940 MAX2 5005 Perform Review Factore Review LACR Request Approach (FLD PONT) 10 10-10-22 947.22 947 MAX2 10 Incl 4/14rd (FSIMS TAL) Factore Metter Lack Request Approach (FLD PONT) 10 10-10-22 947.42 947 MAX2 10 Incl 4/14rd (FSIMS TAL) Factore Metter Lack Request Approach (FLD PONT) 10 10-10-22 947.42 947 MAX2 10 Incl 4/14rd (FSIMS TAL) Factore Mether State Review LACR Request Approach (FLD PONT) 10 10-10-22 947.42 947 947.22 947 MAX2 10 Incl 4/14rd (FSIMS TAL) Factore Maximi TS (Lipitry (FSIMS TAL) 947.42 947.42 947.42 947.42 947.42 947.42 947.42 947.42 947.42 947.42 947.42 947.42 9	8	DES-7005	Prepare and Submit LACC Request	23	23	08-15-21	09-06-21	362	Prepare and Submit LACC Request
ICE-7015 Proces and Address Comments IACC Request 9 9 00.221 10.652 0.02 ICE-3703 VIDT Frequest Additional Information and Pance Imon on TRameton 96 00 10.1622 0.1652 0.02 DES-7025 CTB Action Meeting - LACC Request Approval (PCL) PONT) 12 10.10522 0.0752 0.23 DES-8005 Perform ROV / Essencert Augustion 120 100.10242 0.07522 0.23 DES-8010 Deagn OAV Cot of TR5 / Lighting / String Plan 82 0.07422 0.07722 0.072 DES-8010 Bugston MC Cot of TR5 / Lighting / String Plan 21 10.5572 0.6722 0.0722 0.0722 DES-8010 Bugston MC Cot of TR5 / Lighting / String Plan 21 10.5572 0.6722 0.0722 <td>В</td> <td>DES-7010</td> <td>VDOT Review LACC Request</td> <td>21</td> <td>21</td> <td>09-07-21</td> <td>09-27-21</td> <td>362</td> <td>VDOT Review LACC Request</td>	В	DES-7010	VDOT Review LACC Request	21	21	09-07-21	09-27-21	362	VDOT Review LACC Request
DS-7020 VOOT Presen Additional Monestina and Place term on CTA Agencel (HOLP POMT) 1<1	3	DES-7015	Revise and Address Comments LACC Request	9	9	09-28-21	10-06-21	362	Revise and Address Comments LACC Request
DES-7026 CIB Acton Meeting - LACC Request Approval (HCLD POMT) 1 1 1019-22 0459-2 420 NEV26 DOX Actional Maguineton 120		DES-7020	VDOT Prepare Additional Information and Place Item on CTB Agenda	90	90	10-07-21	01-04-22	362	VDOT Prepare Additional Information and Place Item on CTB
DXV2 5 (0000/001000000000000000000000000000000	3	DES-7025	CTB Action Meeting - LACC Request Approval (HOLD POINT)	1	1	01-05-22	01-05-22	362	CTB Action Meeting - LACC Request Approval (HOLD POINT
DE-8005 Perform RQW / Exerement Argustation 128 120 103.07.22 0.702.2 321 VMV210 000000000000000000000000000000000000	NDARY2.9 ROV	V Acquistion	······································	126	126	03-07-22	07-10-22	323	BQUNDARY2.9
258/22 10 IDSU/25100/S0109/S18100 60.14.20xx 2522 2521 0 DES-9010 Design (A) / OC of TIS / Lighting / Striping Plan 62 82 06.14.20x 251 0 DES-9010 Design (A) / OC of TIS / Lighting / Striping Plan 2 2 06.14.20x 251 0 DES-9010 Design (A) / OC of TIS / Lighting / Striping Plan 2 2 06.14.20x 251 0 DES-9025 FFC TIS / Lighting / Striping Plan 2 0 06.04.20x 251 0 DES-9030 VOOT Review Periminal 2 0 06.04.20x 251 VOOT Review Periminal 1 100.04.20x 07.07.21x 2 0.04.20x 0.05.20x 0.05.	.9	DES-8005	Perform ROW / Easement Acquisition	126	126	03-07-22	07-10-22	323	Perform ROW / E
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Design QA / C2 (TIS / Lighting / Signing / Striping Plan 11 11 0.04722 64.17.22 321 D CES4015 Submit TIS / Lighting / Signing / Striping Plan 2 2 0.64.92.2 321 D CES4026 VOCT Review Planman 2 2 0.64.92.2 321 D CES4025 PC(TIS / Lighting / Signing / Striping Plan 21 0.64.92.2 0.64.92.2 321 D CES4025 PC(TIS / Lighting / Signing / Striping Plan 21 0.64.92.2 0.64.92.2 321 D CES4003 VOCT Review and Approve Plant Signing / Striping Plan 21 20 0.64.92.2 0.72.72.2 321 DRV211 PERDENV 102 0.64.92.2 0.72.72 0.72.42.2 0.72.72 0.74.72.2 0.74.72 0.74.72.2 0.74.72 0.74.72.2 0)	DES-9005	Prepare ITS / Lighting / Signing / Striping Plan	82	82	02-14-22	05-06-22	321	Prepare Π\$ / Lighting / Signing
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	Remaining LevActual Level of	el of Effort Effort	Actual Work Critical Remaining						Page 2 of 5 Wagman Heavy C

2023 Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Agenda ROW Acquistion asement Acquisition 2.10 ITS/Lighting/Signing/Striping Striping Plan ng / Signing / Striping Plan g / Striping Plan y ITS / Lighting / Signing / Striping Plan Signing / Striping Plan and Approve ITS / Lighting / Signing / Striping Plan hting / Signing / Striping Released .11 Final Roadway way Plans lway Plans Plans and Approve Fihal Roadway Plans adway Plans Released BOUNDARY.3.1 Utility ------------Verizon ion ocation er Hydrant Extention BOUNDARY,3.2 Phase 1 2.1 Phase 1A ad mp Temporary Ramp Inc.

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		Activity ID	Activity Name	Original Duration	Remaining Duration	g Start n	Finish	Total Float	Aug	Son	Oct	Nov	Doc	lon	Eob	Mor	Apr	May	2022
BO	UNDARY.3.2	2.1.3 Boundary	Channel	36	3	6 05-25-22	07-21-22	5	Aug	Joep		NOV	Dec	Jan	Treb	Iviai	Γ Αρι	Iviay	BOUNDARY
3	3.2.1.3	A1030	Demo existing Median Islands	15	1	5 05-25-22	06-17-22	5				1							Demo existing Media
2	3.2.1.3	A1035	Place Subbase Temporary Median	10	1	0 06-17-22	07-05-22	5											Place Subbase
2	3.2.1.3	A1040	Place Asphalt Temporary Median	10	1	0 07-06-22	07-19-22	5				-		-				-	🥅 🛛 Place Aspha
2	3.2.1.3	A1045	Shift Traffic on Boundary Channel to WB Lanes	2	:	2 07-19-22	07-21-22	5											Shift Traffic o
BOUN	DARY.3.2.2	Phase 1B		145	14	5 07-26-22	03-31-23	131										+;	
BOI	UNDARY.3.2	2.2.1 Eastboun	d Boundary Channel	71	7	1 07-26-22	11-17-22	14											v
3	3.2.2.1	A1080	Install Signage and MOT	3	:	3 07-26-22	07-28-22	3				1							Install Sign
3	3.2.2.1	A1085	Install E&S Controls	3	;	3 08-01-22	08-03-22	15				-] Install E&
3	3.2.2.1	A1090	Demo Existing Roadway	20	20	0 08-05-22	09-02-22	15										¦	De
3	3.2.2.1	A1095	Excavate and Grade to Subgrade	10	10	0 09-06-22	09-19-22	16				1						-	
3	3.2.2.1	A1100	Install Drainage	10	10	0 09-06-22	09-20-22	15				i.							
3	3.2.2.1	A1115	Place Subbase	10	1	0 09-22-22	10-06-22	15				-		-				-	
3	3.2.2.1	A1120	Install Curbs	10	1	0 10-07-22	10-21-22	14				1		1					
3	3.2.2.1	A1135	Install Sidewalks	10	10	0 10-24-22	11-08-22	14				4						¦	; ; ; ; ; ; ;;;;;
3	3.2.2.1	A1125	Place Base Asphalt	5		5 10-25-22	10-31-22	18				1		1				-	
3	3.2.2.1	A1130	Place Intermediate Asphalt	5		5 11-01-22	11-07-22	18				-							
3	3.2.2.1	A1140	Place Topsoil	5		5 11-10-22	11-17-22	14				i.							
BO	UNDARY.3.2	2.2.2 NW Quad		23	23	3 11-01-22	12-14-22	0											
3	3.2.2.2	A1265	Install Signage and MOT	2		2 11-01-22	11-03-22	0]			<u> </u>]		
3	3.2.2.2	A1270	Implement Detour of Existing Ramp	1		1 11-03-22	11-07-22	0											
3	3.2.2.2	A1275	Install E&S Controls	1		1 11-07-22	11-08-22	0				1						1	
З	3.2.2.2	A1280	Demo Existing Ramp	2	:	2 11-08-22	11-11-22	0				-							
3	3.2.2.2	A1285	Excavate and Grade to Subgrade	3	:	3 11-11-22	11-16-22	0				1						1	
3	3.2.2.2	A1290	Place Subbase	5	4	5 11-16-22	11-23-22	0				-							
3	3.2.2.2	A1295	Install Curbs	5		5 11-23-22	12-06-22	0							1	1		;;	
3	3.2.2.2	A1300	Place Base Asphalt	2		2 12-07-22	12-08-22	0				-							
3	3.2.2.2	A1305	Place Intermediate Asphalt	2	:	2 12-09-22	12-12-22	0				-		-				-	
3	3.2.2.2	A1310	Place Topsoil	1		1 12-12-22	12-13-22	0				-							
3	3.2.2.2	A1315	Remove Detour and Open Ramp	1		1 12-13-22	12-14-22	0				1		-	1				
O	UNDARY.3.2	2.2.3 NE Quad		27	2	7 08-01-22	09-09-22	0										+; ;	· · · · · · · · · · · · · · · · · · ·
3	3.2.2.3	A1145	Install Signage and MOT	2	:	2 08-01-22	08-02-22	3				-							Install Sig
3	3.2.2.3	A1150	Implement Detour of Existing Ramp	1		1 08-03-22	08-03-22	3				1		1	1			-	Impleme
3	3.2.2.3	A1155	Install E&S Controls	1		1 08-05-22	08-05-22	3				-							I Install E
3	3.2.2.3	A1160	Demo Existing Ramp	2	:	2 08-08-22	08-09-22	3				1		-				-	I Demo E
3	3.2.2.3	A1165	Excavate and Grade to Subgrade	3	:	3 08-11-22	08-15-22	2										+i	Excav
3	3.2.2.3	A1170	Place Subbase	5		5 08-16-22	08-22-22	2				-							Plac
3	3.2.2.3	A1175	Install Curbs	5		5 08-24-22	08-30-22	1				1		1	1			-	📕 Ins
3	3.2.2.3	A1180	Place Base Asphalt	2		2 09-01-22	09-02-22	0				-							I PI
3	3.2.2.3	A1185	Place Intermediate Asphalt	2		2 09-06-22	09-07-22	0				1						-	
3	3.2.2.3	A1190	Place Topsoil	1		1 09-07-22	09-08-22	0		- i								;;	I I I
3	3.2.2.3	A1195	Remove Detour and Open Ramp	1		1 09-08-22	09-09-22	0											1
BO	UNDARY.3.2	2.2.4 SW Quad		60	6	0 12-14-22	03-31-23	131				1							
3	3.2.2.4	A1060	Close Ramps to and from 395	2	:	2 12-14-22	12-19-22	75				-							
3	3.2.2.4	A1320	Install E&S Controls	2	:	2 12-19-22	12-21-22	75				1						-	
3	3.2.2.4	A1690	Install MOT along 395	10	1(0 12-19-22	01-05-23	160								÷		+i :	·
3	3.2.2.4	A1110	Demo existing Ramps	10	1(0 12-21-22	01-09-23	75				1		-				1	
3	3.2.2.4	A1255	Excavate and Grade	10	1	0 01-09-23	01-25-23	75				-							
3	3.2.2.4	A1260	Place Topsoil	5		5 01-25-23	02-06-23	75				1		-				-	
:	3.2.2.4	A1695	Remove / Upgrade existing 395 Shoulder	20	20	0 03-01-23	03-31-23	137					-			-		1	
BO	UNDARY.3.2	2.2.5 SE Quad		32	33	2 09-09-22	11-01-22	0					+					<u>+</u> '	
3	3.2.2.5	A1200	Install Signage and MOT	2		2 09-09-22	09-13-22	0				1				}		1	
:	3.2.2.5	A1205	Implement Detour of Existing Ramp	1		1 09-13-22	09-15-22	0								-			
:	3.2.2.5	A1210	Install E&S Controls	2		2 09-15-22	09-19-22	0				1				}		1	
:	3.2.2.5	A1215	Demo Existing Ramp	5		5 09-19-22	09-26-22	0								-			
· · · ·		1						Ť	1	1	1	1	1	1	1	1	1	1	<u>, , i i</u>

2023 Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov 2.1.3 Boundary Channel Image: Channel Islands mporary Median emporary Median Boundary Channel to WB Lanes BOUNDARY 3.2.2 Phase 1B BOUNDARY.3.2.2.1 Eastbound Boundary Channel e and MOT Controls lo Existing Roadway Excavate and Grade to Subgrade Install Drainage Place Subbase 🔲 Install Curbs Install Sidewalks Place Base Asphalt Place Intermediate Asphalt Place Topsoil BOUNDARY.3.2 2.2 NW Quad Install Signage and MOT Implement Detour of Existing Ramp Install E&S Controls Demo Existing Ramp Excavate and Grade to Subgrade Place Subbase Install Curbs Place Base Asphalt Place Intermediate Asphalt Place Topsoil Remove Detour and Open Ramp UNDARY.3.2.2.3 NE Quad ge and MOT Detour of Existing Ramp Controls sting Ramp and Grade to Subgrade Subbase l Curbs e Base Asphalt ce Intermediate Asphalt ce Topsoil move Detour and Open Ramp BOUNDARY,3.2.2.4 SW Quad -Close Ramps to and from 395 Install E&S Controls Install MOT along 395 Demo existing Ramps Excavate and Grade 🔲 Place Topsoil Remove / Upgrade existing 395 Shoulder BOUNDARY.3.2.2.5 SE Quad stall Signage and MOT nplement Detour of Existing Ramp nstall E&S Controls Demo Existing Ramp

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th	Activity	Activity Nama		a Start	Liniah	Tatal					000	22						2022		
IIN	Activity ID	Activity Name	Duration Duratio	n Start	Finish	Float	Aug Sep Oct No	Dec Jan	Feb Mar	Apr May	20. / Jun /	ZZ Jul Au	g Sep	Oct Nov Dec	Jan Feb	Mar A	pr May	Jun Jul	Aug S	Sep Oct
3.2.2.5	A1220	Excavate and Grade to Subgrade	5	5 09-26-22	10-03-22	0								Excavate and Gra	e to Subgra	de				
3.2.2.5	A1225	Place Subbase	5	5 10-03-22	10-11-22	0								Place Subbase						
3.2.2.5	A1230	Install Curbs	5	5 10-11-22	10-19-22	0								Install Curbs						
3.2.2.5	A1235	Place Base Asphalt	3	3 10-20-22	10-25-22	0								Place Base A	sphalt					
3.2.2.5	A1240	Place Intermediate Asphalt	2	2 10-26-22	10-27-22	0								Place Interm	ediate Aspha	lt:				
3.2.2.5	A1245	Place Topsoil	2	2 10-27-22	10-31-22	0								Place Tops						
3.2.2.5	A1250	Remove Detour and Open Ramp	1	1 10-31-22	11-01-22	0								Remove De	tour and Op	en Ramp				
BOUNDARY.3.3 Pr		hadall Osmana and MOT	104 10	4 12-14-22	06-13-23	0						i.			hatall Ciana		1		VRY.3.3 Pr	hase 2
3.3	A1600	Install Signage and MOT	3	3 12-14-22	12-20-22	0									Install Signad					
	1 Phase 24		17 1	7 12-20-22	01-24-23	0									BOI	NDARY3 3	1 Phase 2	<u>م</u>		
BOUNDARY:	3 3 1 23 Boundar	/ Channel	17 1	7 12-23-22	01-24-23	0									BOL	NDARY.3.3.	1.23 Boun	darv Channel		
3.3.1.23	A1340	Excavate and Grade Temporary Widenings	5	5 12-23-22	01-04-23	0									Excavate	and Grade	Temporarv	Widenings		
3.3.1.23	A1345	Place Subbase Temporary Widenings	5	5 01-04-23	01-12-23	0									Place S	ubbase Terr	porary Wic	lenings		
3.3.1.23	A1350	Place Asphalt Median Widening	5	5 01-12-23	01-20-23	0									Place	Asphalt Me	dian Wider	ling		
3.3.1.23	A1355	Shift Traffic on Boundary Channel to EB Lanes	2	2 01-20-23	01-24-23	0									Shift	Traffic on Bo	oundary Ch	annel to EB L	anes	
BOUNDARY.3.3	2 Phase 2B		81 8	1 01-24-23	06-13-23	0									-		, , ,		ARY.3.3.2	Phase 2B
BOUNDARY.	3.3.2.1 Westboun	d Boundary Channel	67 6	7 01-24-23	05-22-23	14												BOUNDARY.3	.3.2.1 We	stbound Bo
3.3.2.1	A1360	Install Signage and MOT	3	3 01-24-23	01-31-23	0									📕 Ins	all Signage	and MOT			
3.3.2.1	A1365	Install E&S Controls	3	3 01-31-23	02-06-23	16									🔲 Ir	stall E&S Co	ontrols			
3.3.2.1	A1370	Demo Existing Roadway	15 1	5 02-06-23	03-03-23	16			÷							🛑 Demo E	xisting Roa	dway		
3.3.2.1	A1375	Excavate and Grade to Subgrade	10 1	0 03-03-23	03-20-23	17						1				Exc	avate and	Grade to Subg	Jrade	
3.3.2.1	A1380	Install Drainage	10 1	0 03-03-23	03-21-23	16										🔲 Inst	all Drainag	÷		
3.3.2.1	A1390	Place Subbase	10 1	0 03-21-23	04-10-23	16											Place Sub	base		
3.3.2.1	A1395	Install Curbs	10 1	0 04-10-23	04-27-23	14						1					nstall	Curbs		
3.3.2.1	A1410	Install Shared-Use Paths	10 1	0 04-27-23	05-12-23	14									[1	🛄 Ins	tall Shared-Us	e Paths	
3.3.2.1	A1400	Place Base Asphalt	5	5 04-28-23	05-04-23	15											📋 Plac	e Base Aspha	ılt	
3.3.2.1	A1405	Place Intermediate Asphalt	5	5 05-08-23	05-12-23	15						-					🛛 Pla	ace Intermedia	ite Asphalt	L L
3.3.2.1	A1415	Place Topsoil	5	5 05-12-23	05-22-23	14												Place Topsoil		
BOUNDARY.	3.3.2.2 NW Quad		78 7	8 01-31-23	06-13-23	0												BOUNDA	ARY.3.3.2.2	2 NW Quad
3.3.2.2	A1540	Shift Traffic onto New Ramp	2	2 01-31-23	02-03-23	0									SI	ift Traffic on	to New Rar	np		
3.3.2.2	A1550	Install E&S Controls	5	5 02-03-23	02-13-23	0										Install E&S (Controls			
3.3.2.2	A1555	Demo Existing Ramp	15 1	5 02-13-23	03-10-23	0										🛑 Demo	Existing Ra	amp		
3.3.2.2	A1560	Demo Temporary Ramp	10 1	0 03-10-23	03-29-23	0						-					emo Temp	prary Ramp		
3.3.2.2	A1565	Excavate and Grade	10 1	0 03-30-23	04-14-23	0									ļ		Excavate	and Grade		
3.3.2.2	A1570	Install Barrier	10 1	0 04-17-23	05-02-23	0						i.					lnsta	ll Barrier		
3.3.2.2	A1575	Install Guardrails	2	2 05-04-23	05-05-23	0											Inst	all Guardrails		
3.3.2.2	A1580	Installed Shared-Use Paths	20 2	0 05-08-23	06-05-23	0						1						Installed SI	nared-Use	Paths
3.3.2.2	A1585	Place Topsoil	5	5 06-05-23	06-13-23	0						i						Place To	psoil	
BOUNDARY.3.4 Pt	nase 3		87 8	7 06-13-23	10-31-23	12														
3.4	A1610	Install Signage and MOI	2	2 06-13-23	06-15-23	0												Install Si	gnage and	
3.4	A1615	Install E&S Controls	2	2 06-15-23	06-19-23	0													.ao Contro	ns ny Decedure
3.4	A1620	Demo lemporary koadway	5	0 06 10 00	07.04.00	0														y ruauway
3.4	A1700	Every ate and Grade for Boundaboute	20 2	0 00-19-23	07-11-23	00													risiail Fi0j	d Grade for
3.4	A1020			0 00-20-23	07-11-23	0													Inetall D	
3.4	A1635	Install Median Islands	10 1	0 07-11-23	08-11-23	0													instantitu instan	I Median lek
3.4	A1640		10 1	0 08-11-23	08-28-23	0												•		nstall Curbe
3.4	A1645	Install Sidewalks	10 1	0 08-28-23	09-12-23	27														Install Sid
3.4	A1675	Install Lighting Ramps	20 2	0 08-28-23	09-27-23	0													: 📕	Install
3.4	A1650	Install Shared-Use Paths	5	5 08-29-23	09-05-23	18										+		+	·····	Install Shar
3.4	A1660	Place Topsoil	10 1	0 09-05-23	09-20-23	17														Place T
3.4	A1655	Install Surface Asphalt	10 1	0 09-06-23	09-19-23	24														Install S
3.4	A1685	Remove MOT and Open to Pedestrians and Bicvclists	3	3 09-20-23	09-22-23	24													-	Remov
3.4	A1665	Performing Final Stabilization and Seeding	10 1	0 09-20-23	10-06-23	17														🔲 Per
		g	·				I I I I	1 1	<u>ı ı i</u>	I I	1 i	1	1	1 I I	I	1 1	1	I I	<u> </u>	

Baseline	e Schedule Subr	mission BOUI		Boundary Channel LOS Schedule												05-10-21 08:20										
WBS Path			Activity Name	Original	Remaining	Start	Finish	Total								2022							2023			
WDO I aui		Activity iD		Duration	Duration			Float	ul Au	a Sep O	ct Nov E	Dec Jan	Feb M	lar Apr	Mav J	un Jul	Aug Sep	Oct N	lov Dec	Jan Fe	b Mar	Apr May	/ Jun J	ul Aua	Sep Oct Nov	
	3.4	A1680	Install Lighting Boundary Channel Drive	20	20	09-27-23	10-31-23	0		5 1 1							5 1								lns	
	3.4	A1670	Install Landscaping	10	10	10-06-23	10-23-23	17																	🔲 İnsta	
	3.4	A1670	hstall Landscaping	10	10	10-06-23	10-23-23	17																	Insta	
	 Remaining Le Actual Level o 	vel of Effort	Actual Work Critical Remaining Remaining Work Milestone						Page	e 5 of 5					v	Vagman I	Heavy Civi	l, Inc.								

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